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Design and Implementation of a Patient Tracking and Recall System for Branch Dental Clinic Monterey

by

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ABSTRACT

This thesis analyzes the information system requirements of Branch Dental Clinic, Monterey, and develops a computer application to automate the clinic's patient tracking and recall process. The application replaces an existing mainframe-based, single-file system with a PC-based, relational database management system that provides greater functionality, enables increased productivity, improves data integrity and accuracy, and includes currently lacking security features and administrative functions.

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I. INTRODUCTION AND PRELIMINARY INVESTIGATION

This thesis designs, documents, and implements a computer application to perform dental patient tracking and recall functions for the Branch Dental Clinic, Monterey (BDCM). Information that was collected during a preliminary investigation of the information system requirements of BDCM is presented in this chapter. Specifically, the relevant background of BDCM and the information system problems that led to the conduct of the thesis are presented, the scope of the project is defined, and three alternative solutions are evaluated.

A. BACKGROUND

BDCM provides regular dental care and emergency dental treatment to all active duty military staff and students stationed both at the Naval Postgraduate School (NPS) and the various NPS tenant commands. Dental appointments are regularly scheduled based on a four-class rating system (1 to 4, in order of increasing priority) indicating the member's need for treatment. Emergency care is provided whenever required.

Interviews with the BDCM Director and staff identified four major information-oriented activities within the clinic: (1) appointment scheduling, (2) inventory management, (3) maintenance of a Dental Information and Retrieval System (DIRS) as prescribed by higher authority, and (4) patient tracking and recalls. With regard to appointment scheduling and inventory management activities, BDCM satisfaction with

current manual methods was found to be high. Moreover, the clinic Director felt strongly that attempts to computerize these two functions, given the relatively low volume of activity, would not increase efficiency or effectiveness. Hence, these two business functions were dropped from further investigation.

The DIRS system operates on a personal computer (PC) and consists of proprietary software provided by the Navy Regional Dental Center (NRDC) for use at all subordinate branch clinics. Since NRDC mandates that branch clinics use DIRS to collect and report detailed data on all dental care provided, further analysis of this activity was unnecessary.

Patient tracking and recall functions at BDCM are partially automated by a mainframe-based, single-user, single-file database management system. It is this system and the requirements of the patient tracking and recall process that the remainder of this thesis addresses.

The mainframe-based database application allows data entry and updating, tracks members' dental health status (class), generates recall notices, prints sorted member rosters, and provides operational readiness summary statistics. When members check their records into the clinic a dentist's review of their dental records results in a class rating being assigned. A class rating of "1" indicates no need for dental treatment beyond a mandatory annual examination (a T2-exam). A class rating of "2" or "3" indicates a need for additional treatment. A class rating of "4" indicates the member is past due for an annual exam (it is assigned regardless of dental health). Just prior to a member's T2-exam anniversary, he/she is notified by memorandum to make an

appointment for an annual exam using an automated patient recall system. Computer generated recall letters are routed to student mail center (SMC) mailboxes or staff offices as appropriate.

B. PROBLEM DEFINITION

The existing application for patient recalls was written several years ago for use on the NPS mainframe computer. When the system was installed it provided significant benefits over the previous labor and time intensive manual recall process. However, the system was crude in its interface, limited in functionality, and difficult to use. Moreover, due to turnover of personnel since its installation, none of the current staff are familiar with the history of the system; no documentation can be found; and no system maintenance is available.

Interviews with end-users revealed five general problem areas with the mainframe-based system: poor access and responsiveness, unfriendly user-interface, inadequate data validation checks, absence of documentation, and incomplete functionality. Examples of specific problems highlighted by end-users in each of these general areas are presented below.

Limited mainframe access and poor responsiveness have been longstanding limitations. BDCM access to the mainframe is via communications software and 1200 baud modem from the clinic PC. By today's standards, this data transfer rate is slow. The system frequently responds slowly during working hours due to both the high number of users and resource-intensive computing tasks. Heavy use of the mainframe

by modem users combined with the limited number of modem receiving lines (16 at the time of this investigation) results in the frequent inability to access the system as needed. This necessitates periodic off-hour work by BDCM staff and delays response to telephone queries from NRDC regarding operational readiness.

Unfriendliness of the user-interface is a significant problem, particularly for new users. In most instances the user is presented with only a blank screen and a prompt, which specifies which application module is active (e.g., main, add, edit, delete, print). A rudimentary help function, when invoked, provides a list of options for the active module. Hence, unless all commands are memorized, the user must continuously invoke the help function to navigate and use the system. Data entry itself is facilitated somewhat by a field list from which the user selects a field to enter or edit, but it remains a cumbersome process. The user must select a field from the list, enter the data, and select another field from the list rather than simply automatically moving from one field to the next. Additionally, during record appending the field listing scrolls up and off the screen, leaving no hint of the remaining fields that require additional data entry.

The inadequacy of field validation checks in the mainframe application has allowed a cumulative deterioration in the accuracy and completeness of records in the database. For example, numbers are improperly allowed in various name fields. Moreover, since member records are indexed by name rather than Social Security Number (SSN), two people with the same name are prohibited from being entered properly into the database. In such instances, the user must deliberately attempt to circumvent or "trick" the system by, for example, putting in a middle initial for one member but not the other. Related

to this, the system saves a new record whenever data is entered into the name field, regardless of content and regardless of whether the record has any other fields completed. Over time the database has accumulated much erroneous data and many incomplete records. Cleaning the database has been problematic since records cannot be located and edited or deleted unless an exact name match is entered.

The lack of system documentation has forced end-users to learn the system by experimentation. The total functionality of the system is not immediately obvious and can remain undiscovered and unutilized. Moreover, the logic underlying critical processes, such as the triggering of recall notices or updating dental class status remains unspecified. The lack of documentation has also precluded improving the functionality of the system and implementing fixes. For example, necessary follow-up form letters that are not included in the present system must be externally word-processed for each individual. Additionally, hard-coding of the signature name on recall letters has resulted in a long since-transferred Director's name appearing on the recalls sent to members.

C. SCOPE

The scope of this thesis is limited to the patient tracking and recall process. As noted previously, there are other business functions within the clinic, yet the patient tracking and recall process is the only information-intensive business function left up to local implementation that remains problematic.

D. EVALUATION OF ALTERNATIVE SOLUTIONS

Given that the problems with the existing patient tracking and recall system were deemed significant enough to warrant remediation, three alternative solutions were evaluated. The first alternative involved improving both the hardware and software associated with the mainframe-based system: replacing the modem connection with an on-line terminal, rewriting the software for increased functionality and ease of use, and documenting the system. The second and third alternatives involved designing and implementing a PC-based database management system to replace the existing mainframe application, the difference being whether a multi-user versus a single-user configuration should be developed. Multi-user capability was considered a "nice-to-have" feature that might be useful sometime in the future, yet it was clearly not a requirement for satisfactory performance of patient tracking and recall functions. Should a PC-based solution be selected, NRDC stipulated that it must be a compiled application that would not be subject to potential modification by inexperienced clinic staff.

1. Cost Feasibility

At the outset, NRDC made it clear that no funds were available to support improving the existing patient tracking and recall system. This limitation alone ruled-out upgrading the mainframe-based system—the cost of terminal acquisition and connection was prohibitive. Moreover, additional funds would be required to pay a technical expert to rewrite and document the mainframe software. Similarly, to exploit multi-user capability in a PC-based system would require additional funding to purchase required hardware. Hence, these two alternatives were eliminated from further consideration.

Designing and implementing a single-user, PC-based database management system was attractive from a cost standpoint. The development cost of such a system would be limited to the personal time and effort of the author. Further, appropriate development hardware (an IBM-compatible 80386 computer) and software (Foxpro 2.0 and Foxpro 2.0 Distribution Kit, a dBase-compatible development system with compiler) was already owned by the author. In addition, BDCM would not be required to purchase any additional hardware; their existing computer equipment could be used to evaluate prototypes and to install the final working system. BDCM staff were enthusiastic and committed to assisting with the development process.

2. Technical Feasibility

BDCM owned a Zenith 286 PC and peripherals that were compatible with the foreseeable processor, memory, storage, and video requirements of a new PC-based application. Moreover, Foxpro 2.0 can create applications able to run on any IBM-compatible PC with a minimum of 512K of random access memory (RAM) [Ref. 1]. Preliminary tests of routine database operations (browse, index, sort) with a test database approximately the same size as that of the existing mainframe data file (2000 records with 15 fields per record) using Foxpro 2.0 were successful on the BDCM PC and demonstrated acceptable speed of operations with only 512K of RAM.

Future maintenance of the application would not be provided by the author.

Discussion of this issue with both NRDC and BDCM indicated that this was acceptable to them. It was agreed that the application should run on any minimally configured IBM-compatible computer to enable portability and that support for a standard dot-matrix

printer should be provided. Program code and documentation would be included with the delivered application to support future maintenance. (NRDC and BDCM acknowledged that any future maintenance would require purchase of Foxpro 2.0 and the Foxpro 2.0 Distribution Kit. Intermediate-level dBase or Foxpro programming skills would also be required.)

3. Schedule Feasibility

Based on the findings of the preliminary investigation, with detailed system analysis to begin 15 August, 1991, implementation of a fully operational PC-based system was scheduled for completion by 1 February, 1992. This left two months for correction of unforseen problems before departure of the author.

II. REQUIREMENTS ANALYSIS

This chapter discusses the requirements phase of project development. The purpose of this phase of development was twofold: (1) during this phase the specific data requirements (objects) that must be represented in the database were defined and (2) the application or functional requirements which support the database were outlined.

A. DATA REQUIREMENTS

Initially, interviews were conducted with the BDCM Director and the dental staff responsible for hands-on use of the existing database. These interviews provided a general idea of the scope and objectives for an upgraded patient tracking and recall system. Working backwards from the existing application's outputs, preliminary object specifications and views were then developed and presented to the dental staff for feedback. Further discussions led to adjustments of the object specifications that satisfactorily met the clinic's needs.

1. Object Development

Important entities identified in the patient tracking and recall process are represented as the objects MEMBER, ACTIVITY, and CURRICULUM shown in Figure 1 below. Each of the objects possesses a collection of named properties. The properties listed within each diagram that are capitalized and within small boxes are themselves objects. The subscript "MV" denotes that the property is multi-valued. The MEMBER

object represents patients who have "checked-in" with the clinic upon arrival to NPS or an NPS tenant command. As can be seen in Figure 1, the ACTIVITY and CURRICU-LUM objects are properties of the MEMBER object. They associate each member with the properties of a specific activity and/or curriculum.

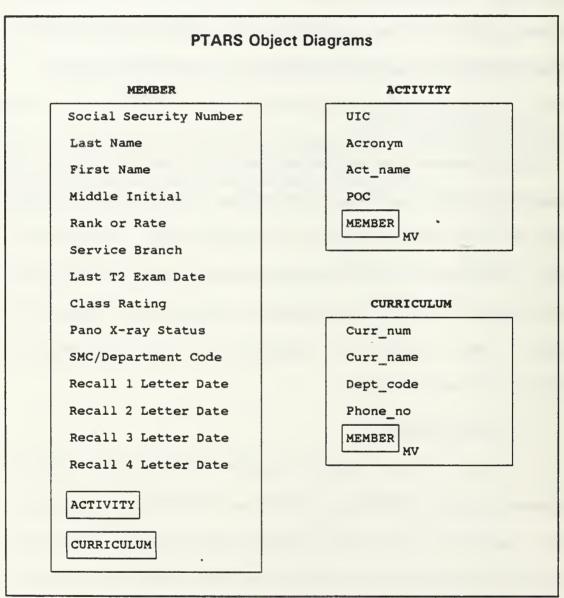


Figure 1. Object Diagrams

The ACTIVITY object represents each of the various commands served by BDCM. Note that the multi-valued MEMBER object is also a property of the ACTIVITY object. That is, a specific ACTIVITY can have multiple members.

The CURRICULUM object represents each of the many different curriculums offered at NPS. The MEMBER object is a multi-valued property of the CURRICULUM object; many students can belong to any given curriculum.

2. Domain Definition

The object diagrams were used to summarize knowledge of the objects and to present it to the users in an unambiguous fashion. Following user validation of the object representations, domain definitions were established. The domain of a property is the set of all possible values a property can have. Each domain definition contains a physical description of the type of data (e.g., numeric versus character) and any value constraints. Each definition also describes the function or purpose of the property. Refer to Appendix A for detailed object specifications, including object and domain definitions.

B. APPLICATION REQUIREMENTS

1. Processes

Building upon the data requirements discussed in the previous section, major processes within the patient tracking and recall process were identified through . discussions with BDCM end-users. A level-1 data flow diagram (DFD), shown in Figure

2 below, was developed as a basis for validating analyst understanding of the processes with end-users.

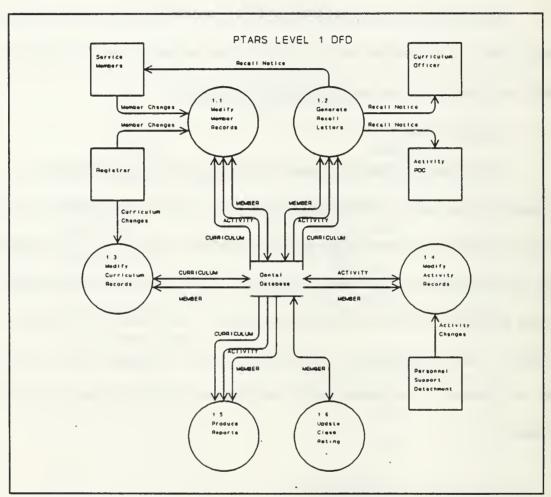


Figure 2. Level 1 Data Flow Diagram

Entities external to the system are shown in Figure 2 as square boxes and include Service Member, Registrar, Personnel Support Detachment (PSD), Curriculum Officer, and Activity Point of Contact. These entities are sources of data and/or recipients of system outputs (as indicated by the direction of the data flow arrows). The

numbered processes (denoted within the circles) summarize the operations involved in the overall patient tracking and recall process. Processes 1.1, 1.3, and 1.4 comprise the append, edit, and delete operations for the objects, MEMBER, CURRICULUM, and ACTIVITY. Process 1.2 involves the operations associated with generating and printing recall letters. An Operational Readiness report and various sorted rosters are produced in process 1.5. Member dental class is automatically updated to class 4 in process 1.6 for those individuals who have not had an annual examination within 12 months.

Following validation of the information presented by the level-1 DFD, a summary of system update, display, and control mechanisms was developed based on structured interviews with end-users. (See Appendix B.) During this process, information pertaining to each object was obtained that included inputs, outputs, processing notes, volume, and frequency. This information clarified what must be done within each object view.

Prototypes of forms, reports, recall letters, and menus were developed using Foxpro "power tools" (i.e., the Screen Builder and the Report Writer). These early prototypes clarified the expectations of end-users regarding the format of the user-interface and the display of information.

2. Operational and Administrative Requirements

System operational and administrative requirements were identified through discussions with BDCM staff. Operational requirements for the system are listed below:

• Single-user, PC-based application, operable on an "as needed" basis by the BDCM Administrative Petty Officer and/or the BDCM Receptionist

- Portable/re-installable to different, compatible PC
- Extensive "Help" available on-line
- Database backup/restore utilities
- System date and time change utilities
- System-access password protection; password change capability
- Database packing capability

Although it was agreed that program maintenance would not be possible with the compiled application, Foxpro 2.0 program code would be given to BDCM. Hence, should maintenance become critical at some point, modification of the application would be possible with the purchase of Foxpro 2.0 and the Foxpro 2.0 Distribution Kit. A User's Manual (see Appendix C) would be supplied to provide structured guidance for system use, data security and integrity, database backups and restorations, and system optimization.

3. Environmental Requirements

In an efficient system much of the member, activity, and curriculum data should be provided from a master database, shared with the Registrar and PSD. However, this is currently not possible since the data structure and hardware are not compatible. Until such time as the various NPS support entities/ADP-systems can communicate directly, it is incumbent upon the BDCM staff to take the initiative to obtain updated, hard-copy rosters from these two data sources as they become available.

III. SYSTEM DESIGN

In this chapter the two components of system design, logical database design and application design, are discussed. The objective of the design phase was to produce both the logical and physical details of the database and its application. Designing the logical database involved developing a "blueprint" of the database structure. From this blueprint a physical database was designed and the application was developed.

A. LOGICAL DATABASE DESIGN

1. Object to Relation Transformations

The design of the logical database was based on the relational database model [Ref. 2]. The objects MEMBER, ACTIVITY, and CURRICULUM, were transformed into a relational diagram. Figure 3, the relational diagram, shows the three relations that resulted: (1) the compound MEMBER object was transformed into the three relations MEMBER, ACTIVITY, and CURRICULUM; (2) the compound ACTIVITY object was transformed into the two relations MEMBER and ACTIVITY; and (3) the compound CURRICULUM object was transformed into the two relations MEMBER and CURRICULUM.

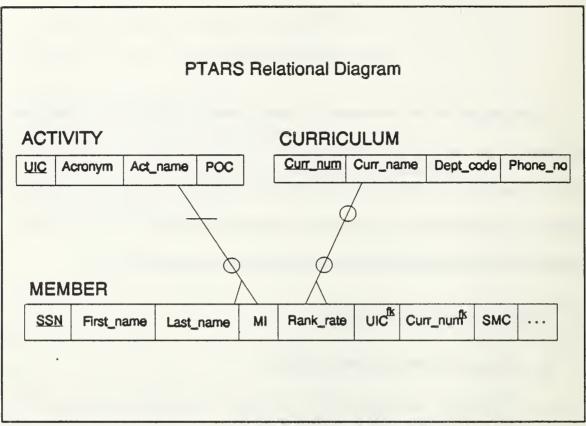


Figure 3. Relational Diagram

2. Relation Descriptions

Each of the three relations are reflections of the original objects with appropriate foreign keys included. Key data are denoted in Figure 3 by underlining. Foreign keys are denoted with the underlined superscript, ^{fk}. Summary descriptions of each of the relations are presented below. (Refer to Appendix D for detailed relation definitions.)

MEMBER

Number of attributes: 15

Key attributes:

Social-Security-Number (SSN)

Foreign keys:

Unit-Identification-Code (UIC)

. Curriculum-Number

Relationships: ACTIVITY to MEMBER; 1:N; Mandatory:Optional

CURRICULUM to MEMBER; 1:N; Optional:Optional

ACTIVITY

Number of attributes: 4
Key attributes: UIC
Foreign keys: None

Relationships: ACTIVITY to MEMBER; 1:N; Mandatory:Optional

CURRICULUM

Number of attributes: 4

Key attributes: Curriculum-Number

Foreign keys: None

Relationships: CURRICULUM to MEMBER; 1:N; Mandatory:Op-

tional

B. APPLICATION DESIGN

The application is the interface between the user and the database. It contains various control mechanisms to prevent direct access to the database and to maintain the integrity of the database. A menu hierarchy was used to aid and control user interaction with the system. The menu-driven approach was employed because it enables inexperienced end-users to access and use the full functionality of a system faster than with a command-driven system. The menu hierarchy depicted in Figure 4 was derived from user requirements. The Append, Edit/View, and Delete/View sub-menus apply to a selected object database. All user-selectable operations flowed from Main Menu selections. Figure 5 shows the final look of the Main Menu and depicts the generic structure of all menus. Figure 6 provides a view of the form for editing/viewing an existing member record. Although specific fields differ across the various forms in the application, the same form "template" is used throughout the application. Appendix C,

the User's Manual, presents comprehensive graphics of application menus, reports, forms, recall letters, and screens.

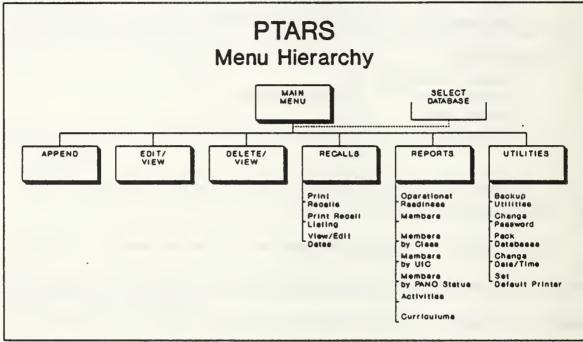


Figure 4. Menu Hierarchy

MEMBER ACTIVIT	Y CURRICULUM	DIRECTOR	01/28/92 12:00:00 am
	PTAI	RS HAIN MEN	U
<f1> for <alt+f1> for</alt+f1></f1>		0. Quit 1. Append 2. Edit/view 3. Delete/view 4. Recalls 5. rePorts 6. Select database 7. Utilities	
		== select : : =====	

Figure 5. Main Menu Screen

ecord:	000013	<hembers></hembers>	01/28	/92 12:00:00		
(P1> for Member 1	or Help er's SSN 1928	3-45-6789				
Last	Name Dohert	First Nam	Janet	M.I. 🛚		
Rank	/Rate	Service Branch ISN Last	T2 Exam 11/21/9			
Pano	Status GRN		MM/DD/Y	Y		
	IC 31405	NPS Student Curriculum Number 3	60	SHC TOOO		
Dates of Previous Recall Letters Routed To Member						
	Recall 1			Recall 4		
	11/21/91 MM/DD/YY	* *	י / יער עם י	MM/DD/YY		

Figure 6. MEMBER Edit/View Form

After establishing the menu hierarchy and obtaining user approval of report, form, recall letter, and screen prototypes, an integrated prototype of the application was developed. That is, a working model of the system was created but with incomplete

functionality [Ref. 3, 4]. End-user evaluations of the prototype's characteristics and operation were used to iteratively revise the model. This prototype was then expanded in functionality to become the final system. This approach was facilitated by Foxpro's project management capability for unifying and coordinating the separate elements of the application. Added advantage was obtained from the use of this approach in that end-users became intimately involved in the development process and actively influenced the look and functioning of the final system. Thus, by the time of implementation their expectations were satisfied and they were well-versed in the application's functioning.

Care was taken to establish consistency of function across modules with regard to form and menu design, messages, escape procedures, navigation keys, function-key use, and availability of on-line help. Moreover, as indicated in the object specifications (Appendix A), the range and format of data for most of the fields was carefully controlled.

IV. SYSTEM IMPLEMENTATION

System implementation was the final step of the development process. The primary objective was to build the fully functional physical application that satisfied the end-user. The physical database was constructed using a DBMS-specific methodology, Foxpro 2.0. It is compatible with the widely-used dBase DBMS language and has numerous language extensions. Moreover, as noted previously, the product provides a very efficient, windowed development environment that facilitates coding, compiling, running, and debugging from within an integrated interface.

During implementation, the prototype was expanded to include all modules fully integrated into an application with complete functionality. Appendix C, the User's Manual, provides documentation which details the final application's features and operations. Documented program code, procedure and token listings, and a token cross-reference listing are included in Appendix E.

Installation required converting the mainframe database and adding several data elements. Hence, the installation and transition to the new system took several days to complete. Primary user training was accomplished during the development process.

V. SUMMARY AND RECOMMENDATIONS

A. SUMMARY

The mainframe-based patient tracking and recall system was due for replacement. It was out-dated in its user interface, was unreliable to access, lacked adequate field validation checks, and required additional capabilities. The PTARS system designed and implemented during the course of this thesis addressed all of these deficiencies and included users actively in the development process. The system is user-friendly and includes all necessary functions internally to provide security, data integrity, and an intuitive operation.

B. RECOMMENDATIONS

During the development process much thought was given to anticipating the needs of end-users. On-line, context-sensitive help was provided for all operations and fields; and confirmations, messages, and prompts were built into all operations that affected the content of the database. Nevertheless, it is still incumbent upon the user to make choices and take actions to protect the data and maintain the quality of unrestricted character fields.

Data security will be only as good as the user's attention to it. The password must be protected, the system must not be left running unattended, and regular backups to floppy disk must be made and stored to safety. All of these activities are ultimately left

up to the discretion of the user. Proper training and careful reading of the User's Manual should enhance end-user adherence to recommended practice.

Finally, NRDC currently provides PC hardware and software support to branch clinics. Upon request, a PC technical expert will troubleshoot problems with BDCM computer resources. The necessity of PCs in the branch clinics is acknowledged and some standard software is provided for an integrated dental information system. Yet, clinics are not provided the resources to protect their systems. For example, no user training is conducted regarding routine machine or data maintenance or security. This could develop into a significant problem in the event of a large data loss. NRDC should consider providing all branch clinics with reasonably efficient backup software, disk maintenance and data recovery software utilities, and the training to use them effectively.

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APPENDIX A: OBJECT SPECIFICATIONS

Object Definitions

MEMBER OBJECT

Descriptive name
Social Security Number

Last Name
First Name
Middle Initial
Rank or Rate
Service Branch
Last T2 Exam
Class Rating
Pano X-ray Status

SMC or Department Code
Recall Letter 1 Date
Recall Letter 2 Date
Recall Letter 3 Date
Recall Letter 4 Date

ACTIVITY; ACTIVITY object

CURRICULUM; CURRICULUM object

Domain name

SSN
Last_name
First_name

MI
Rank_rate
Branch
Last_T2
Class
Pano
SMC
Recall_1
Recall_2

Recall_2 Recall_3 Recall_4

ACTIVITY OBJECT

Descriptive name

Unit Identification Code Unit Acronym Activity Name Point-of-Contact

MEMBER; MEMBER object; MV

Domain name

UIC
Acronym
Act_name
POC

CURRICULUM OBJECT

Descriptive name

Curriculum Number
Curriculum Name
Department Code
Phone Number

MEMBER; MEMBER object; MV

Domain_name

Curr_num
Curr_name
Dept_code
Phone no

Domain Definitions

Acronym: Character (11) Abbreviated activity name Act name: Character (47) Official abbreviated name of an NPS tenant command served by BDCM Branch: Character (4) Abbreviation for member's service branch Class: Numeric (1), range 1-4 Class rating assigned by dentist to each member Curr name: Character (46) NPS curriculum name Curr num: Character (3) Unique NPS curriculum number code Dept code: Character (2) Curriculum office NPS department code First name: Character (15) Member's first name Last name: Character (23) Member's last name Last T2: Date (8); Mask MM/DD/YY, where MM is month, DD is day, YY is year Last T2 exam date MI: Character (1) Member's middle initial Pano: Character (3)

Member's pano x-ray status

Rank rate:

Character (5)

Member's rank or rate

Recall 1:

Date (8); Mask MM/DD/YY, where MM is month, DD is day, YY is year Recall letter 1 date

Recall 2:

Date (8); Mask MM/DD/YY, where MM is month, DD is day, YY is year Recall letter 2 date

Recall 3:

Date (8); Mask MM/DD/YY, where MM is month, DD is day, YY is year Recall letter 3 date

Recall 4:

Date (8); Mask MM/DD/YY, where MM is month, DD is day, YY is year Recall letter 4 date

SMC:

Character (4)

Member's student mail center number or staff department mail code

SSN:

Character (11); Mask NNN-NN-NNNN, where N are any digits Unique member Social Security Number

UIC:

Character (6)

Unique Unit Identification Code of NPS tenant command

APPENDIX B: UPDATE, DISPLAY, AND CONTROL MECHANISMS

I. Update Mechanisms

A. Append/Edit MEMBER data

- 1. Inputs
 - Initial member data received at physical check-in of member records to BDCM
 - Member change data received on roster from PSD
 - Member change data received on roster from Registrar
 - MEMBER object instance from database
 - ACTIVITY object instance from database
 - CURRICULUM object instance from database
 - System-date and time
- 2. Outputs
 - New or modified MEMBER object instance in database
 - Confirmation message on screen
- 3. Processing notes
 - This function used for both new and current members
 - All initial member data manually entered after review of member's dental record
 - Student SMC number may not be available initially
- 4. Volume
 - 225 Jun; 75 Feb/Jul; 250 Mar/Sep/Dec
 - Seven per week on average after quarter start
 - 275 edits per week on average
- 5. Frequency
 - Six times per year for large batch; otherwise daily

B. Delete MEMBER data

- 1. Inputs
 - Member takes physical custody of dental records upon detachment
 - MEMBER objects in database
- 2. Outputs
 - Confirmation notice on screen
- 3. Processing notes
 - Backups of MEMBER data should be made prior to processing a batch of deletions
- 4. Volume
 - 250 at end of each academic quarter
 - Seven per week on average after quarter end
- Frequency
 - Four times per year for large batch; otherwise daily

C. Append/Edit ACTIVITY data

- 1. Inputs
 - Activity data change from Personnel Support Detachment (PSD)
 - ACTIVITY object instance from database
- 2. Outputs
 - New or modified ACTIVITY object instance in database
 - Confirmation message on screen
- 3. Processing notes

- This function will be seldom used since it will be triggered by the addition or modification of a generally stable client organization
- This function used for both new and current activities
- 4. Volume
 - Variable, approximately one instance every two years on the average
- 5. Frequency
 - Variable, approximately once every two years

D. Delete ACTIVITY data

- 1. Inputs
 - Activity data change from Personnel Support Detachment (PSD)
 - ACTIVITY object instance from database
- 2. Outputs
 - Confirmation notice on screen
- 3. Processing notes
 - This function will be seldom used since it will be triggered by the elimination of a generally stable client organization
 - Backup of ACTIVITY data should be made prior to deletion
- 4. Volume
 - Variable, approximately one instance every four years on the average
- 5. Frequency
 - Variable, approximately once every four years

E. Append/Edit CURRICULUM data

- 1. Inputs
 - Curriculum data change from Registrar
 - CURRICULUM object instance from database
- 2. Outputs
 - New or modified CURRICULUM object instance
 - Confirmation message on screen
- 3. Processing notes
 - This function will be seldom used since it will be triggered by the addition or modification of generally stable curriculums
 - This function used for both new and current curriculums
- 4. Volume
 - Variable, approximately two instances per year on the average
- 5. Frequency
 - Variable, approximately twice per year prior to new student class

F. Delete CURRICULUM data

- 1. Inputs
 - Curriculum data change from Registrar
 - CURRICULUM object instance from database
- 2. Outputs
 - Confirmation message on screen
- 3. Processing notes
 - This function will be seldom used since it will be triggered by the elimination of a generally stable curriculum
 - Backup of curriculum data should be made prior to deletion
- 4. Volume
 - Variable, approximately one instance every five years on the average
- 5. Frequency
 - Variable, approximately once every five years

II. Display Mechanisms

- A. Query on MEMBER
 - 1. Output description
 - · Form showing all data for a member to screen
 - 2. Source data
 - MEMBER object
 - Member SSN or name keyed by user
 - 3. Processing notes
 - Used by Administrative Petty Officer or Receptionist
 - 4. Volume
 - Five per week
 - 5. Frequency
 - Daily
- B. Recall letter 1
 - 1. Output description
 - Memorandum mailed to member
 - New or modified MEMBER object instance in database
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user. It creates recall letter one for all members whose last T2 exam was more than 10 months prior to the system-date and for whom recall letter one was not previously produced
 - This process inserts system-date as Recall-Ltr1-Date when conditions above exist
 - 4. Volume
 - 160 monthly
 - 5. Frequency
 - End of every month
- C. Recall letter 2
 - 1. Output description
 - Memorandum mailed to member
 - New or modified MEMBER object instance in database
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user. It creates recall letter two for all members whose last T2 exam was more than 11 months prior to the system-date, for whom recall letter one was produced, and for whom recall letter two was not previously produced.
 - This process inserts system-date as Recall-Ltr2-Date when conditions above exist
 - 4. Volume
 - 100 monthly
 - 5. Frequency
 - End of every month
- D. Recall letter 3
 - 1. Output description
 - Letter mailed to member
 - New or modified MEMBER object instance in database

- 2. Source data
 - MEMBER object
 - System-date
- 3. Processing notes
 - This process is initiated from a menu by the user. It produces recall letter three for all members whose last T2 exam was more than 12 months prior to the system-date, for whom recall letter two was produced, and for whom recall letter three was not previously produced
 - This process inserts system-date as Recall-Ltr2-Date when conditions above exist
- 4. Volume
 - 30 monthly
- 5. Frequency
 - End of every month
- E. Recall letter 4
 - 1. Output description
 - Letter mailed to Curriculum Officer for student members and Activity POC for all other members
 - New or modified MEMBER object instance in database
 - 2. Source data
 - MEMBER object
 - ACTIVITY object.
 - CURRICULUM object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user. It produces recall letter four for all
 members whose last T2 exam was more than 13 months prior to the system-date, for
 whom recall letter three was produced, and for whom recall letter four was not
 previously produced
 - This process inserts system-date as Recall-Ltr4-Date when conditions above exist
 - Student members uniquely belong to UIC 31405
 - 4. Volume
 - 3 monthly
 - 5. Frequency
 - End of every month
- F. Operational Readiness Report
 - 1. Output description
 - Screen display of summary count and percent of patient load for all members by class
 - Screen display of summary count and percent of all patients in Pano x-ray status categories
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user. It creates a summary report of the number and percentage of all members in each of the four different dental classes.
 The report can be optionally printed.
 - 4. Volume
 - 1 monthly
 - 5. Frequency
 - End of every month

- G. Member Roster
 - 1. Output description
 - Printed roster of all members sorted alphabetically or by SSN
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user.
 - 4. Volume
 - 1 monthly
 - 5. Frequency
 - End of every month
- H. Member Roster by Class
 - 1. Output description
 - Printed roster of members sorted alphabetically or by SSN; available for all or for specified class
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user.
 - 4. Volume
 - 1 monthly
 - 5. Frequency
 - End of every month
- I. Member Roster by UIC
 - 1. Output description
 - · Printed roster of all members sorted alphabetically or by SSN
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user.
 - 4. Volume
 - 1 monthly
 - 5. Frequency
 - End of every month
- J. Member Roster by Pano X-ray status
 - 1. Output description
 - Printed roster of members sorted alphabetically or by SSN; available for all members or for specified Pano status
 - 2. Source data
 - MEMBER object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user.
 - 4. Volume
 - 1 monthly
 - 5. Frequency

- End of every month
- K. Activities Listing
 - 1. Output description
 - Printed roster of Activities sorted by UIC
 - 2. Source data
 - ACTIVITY object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user.
 - 4. Volume
 - 1 monthly
 - 5. Frequency
 - End of every month
- L. Curriculums Listing
 - 1. Output description
 - Printed roster of Curriculums sorted by curriculum number
 - 2. Source data
 - CURRICULUM object
 - System-date
 - 3. Processing notes
 - This process is initiated from a menu by the user.
 - 4. Volume
 - 1 monthly
 - 5. Frequency
 - End of every month
- III. Control Mechanisms
 - A. Access to the system is protected by a password known only by the Administrative Petty Officer and the Receptionist
 - B. The system is limited to use by one person at a time.
 - C. Monthly validations of various member data are accomplished using rosters obtained from PSD and the Registrar

APPENDIX C: USER'S MANUAL

NPS DENTAL CLINIC PATIENT TRACKING & RECALL SYSTEM



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Introduction

Welcome to the Naval Postgraduate School Dental Clinic (NPSDC) Patient Tracking and Recall System (PTARS). This database application was developed to provide an inhouse, PC-based capability for NPSDC to maintain the patient data necessary to track and recall patients for annual exams and to produce operational readiness statistics. The system provides fast, dependable access to member records and automates the recall process.

PTARS was designed based on extensive interviews with the NPSDC staff to identify clinic requirements. Prototypes of the system were iteratively developed and demonstrated to ensure that clinic end-users were fully satisfied with the final system specifications. A primary design objective was to develop an application that was very userfriendly. Hence, you will be able to use the system productively with only a minimum amount of familiarization time. Please take a few minutes now to review this User's Manual.

Features overview

PTARS employs four database files that are directly accessible to user modification: MEMBERS.DBF, ACTIVITY.DBF, CURRICUL.DBF, and DIRECTOR.DBF. MEMBERS.DBF contains the information pertinent to each patient. ACTIVITY.DBF and CURRICUL.DBF are used for locating patients and for printing recall letter addresses. ACTIVITY.DBF contains information specific to each UIC served by NPSDC and CURRICUL.DBF contains information specific to each NPS student curriculum. DIRECTOR.DBF contains the name of the current NPSDC Director for placement into the signature line of recall letters.

The application provides a series of simple menus and sub-menus from which to choose its various options. You will be able to view, append, update, and delete Member, Activity, Curriculum, and Director data using screen forms with built-in error-checking routines for each action or data entry. You will also be able to print special reports, sorted database listings, and recall letters. Additional features include but are not limited to:

- Password controlled access to PTARS; changeable password
- Automatic updating of member treatment class status

- Context-sensitive help
- System information display
- Continuous date and time display
- Automatic determination of appropriate recall letters to print
- Backup database(s) to hard disk or floppy disk; restore backup(s)
- Format floppy disk from within application
- List files on hard disk or floppy disk
- Automatic reminders for database backup (if more than one month since last backup) and database pack (if more than 10% of records marked for deletion)

Typographical conventions

The following typographical conventions are used in this manual:

Input Anything that you type is in the Courier typeface, for example,

a:\setup <Enter>

Keys Keys to be pressed are represented like this:

Press both keys simultaneously when a "+" symbol is present, as in:

<Alt+F1>

Direction Cursor movement keys are indicated as:

<PgUp> <PgDn> <Arrows>

Getting started

This chapter contains all the information you need to install and run PTARS. It also discusses the various settings that you can change.

It contains the following sections:

- System requirements
- Installation
- Starting PTARS
- Creating a batch file

System requirements

PTARS requires the following hardware and software:

- An IBM compatible computer with at least 512K of random access memory (RAM) (640K of RAM strongly recommended)
- One floppy disk and one hard disk drive (with at least 3 megabytes of space available)
- Version 2.0 or later of DOS
- A CONFIG.SYS file in your root directory with a Files=25 (or greater) statement
- An EGA or VGA video adapter
- An Epson E/F/J/RX/LQ compatible or IBM Proprinter compatible dotmatrix printer

Additional requirements:

To take advantage of Expanded memory support, you need an expanded memory card that is hardware and software compatible with the Lotus-Intel-Microsoft standard 4.0 or later (LIM 4.0 EMS). If you have an Intel 80386 or 80486 processor you can also use extended memory and a software expanded memory emulator program. PTARS can use 64K

- of expanded memory as additional general purpose memory and any remaining expanded memory to speed up file I/O.
- If expanded memory is not available but the computer has extended memory, PTARS can be configured during installation to use 512K of the available extended memory for a disk cache to speed up file I/O.
- Double-copy paper to automatically make copies of recall letters. Since a copy of Recall 3 is identified as an enclosure to Recall 4, a copy of Recall 3 should be available before routing Recall 4. An alternative to double-copy paper would be making a copy of all Recall 3 letters after printing; then filing them in the event a Recall 4 was necessary for the same individual(s).

Installation

Installation overview

You have been provided with four numbered floppy disks. Disks 1 to 3 contain the files necessary to install and run PTARS. Disk 4 contains the initial database files that were current at the time of program delivery (i.e., MEMBERS.DBF, ACTIVITY.DBF, CURRICUL.DBF, and DIRECTOR.DBF). There are two steps to installing PTARS:

- Make a backup and install the program. Before you do anything else, copy the original disks and store them in a safe place. Then, use your copies of the original disks and run the Setup program to install PTARS on your hard disk.
- Choose the default printer. Before you print for the first time, you should select the default printer emulation from the Utilities Menu.

Installing PTARS

Refer to your computer's documentation (or ask your local computer guru) to determine whether your computer has expanded memory, disk caching hardware or software, and/or extended memory. You will be queried during the installation process regarding your computer's configuration. Note that you need at least 3 megabytes of available hard disk space before you begin.

One cautionary note before beginning your installation. PTARS was designed to run using only one computer at a time. Although in the future it may be tempting to install PTARS on a second computer, avoid installing PTARS on more than one computer. Because the separate installations can not communicate, there is no built-in, guaranteed way for the separate databases to maintain the same up-to-date data. Although you could

theoretically transfer data using floppy disks, almost assuredly over time some data would exist in one machine but not the other, and vice-versa.

The steps for installing PTARS are as follows:

- 1. Insert the PTARS disk #1 in drive A.
- 2. At the DOS prompt, type a:\setup. The Setup program will start.
- 3. When prompted by Setup, specify the disk where you want to install PTARS (e.g., c). Setup creates the subdirectory "\PTARS" on the hard disk specified and copies the program files and initial database files to it. Setup prompts you to insert each disk when necessary.
- 4. After copying, assembling, and un-compressing all the files from the installation disks, Setup queries whether your computer has expanded memory and/or a disk cache. Respond y or n, as appropriate. If you respond negatively, Setup queries whether you have extended memory. Again, respond as appropriate. This process determines how PTARS is configured for start-up.
- 5. When the installation is complete, Setup presents a screen with installation notes. Read the notes. Setup then queries whether you want to start PTARS. If you respond affirmatively, PTARS loads immediately.
- 6. Before printing from PTARS for the first time, select the default printer from the Utilities Menu. Refer to your printer's documentation to determine which emulation (Epson E/F/J/RX/LQ or IBM Proprinter) your printer uses. The default printer emulation is initially Epson.
- 7. Align the paper in your printer. Test the margin adjustments of your paper by printing the Operational Readiness Report from the Reports Menu. The top of your paper should be set in your printer so that one blank line exists at the top of the printed report. Likewise, the paper should be set so that one blank space exists to the left of the header statement "FOR OFFICIAL USE ONLY". If your paper is adjusted in the printer to satisfy these conditions, all printing from PTARS will be formatted properly.

Re-installing PTARS

There are two instances when you may want to re-install PTARS: 1) when there is some problem with any of the program files or 2) the computer has been modified with regard to expanded memory, a disk cache, or extended memory.

The re-install process is exactly the same as the initial installation with two exceptions. Setup attempts to determine if PTARS has been installed previously. If Setup detects that this is a re-installation you will be presented with a listing of existing database files in the "\PTARS" subdirectory and a re-installation note on screen. You can elect to continue or quit the re-installation at this time. If you elect to continue, you will be queried regarding which, if any, of the initial database files you may want to re-install. Note that if you have been using PTARS for any period of time you will probably elect not to re-install any of the initial database files. This is because they will be out of date. Use the "Restore backup(s)" option in the Backup Utilities Menu to restore your most recent data from floppy disk, if necessary.

Starting PTARS

If necessary, change to the "\PTARS" subdirectory on the drive where you installed PTARS (e.g., at the DOS prompt, type cd\ptars). Then type ptars and press <Enter>. A logo screen will appear and pause briefly. (You can eliminate the pause by pressing any key during the logo display.) Following the pause, the PTARS Access Screen appears and you are requested to enter the password. The initial password to use is "zyxabc". You will be given up to three attempts to enter the correct password. After a third failure, PTARS shuts down.

After correctly entering the password, you will be queried whether the system date and time are correct. If you respond negatively, you are prompted to enter the correct date and/or time according to the format displayed.

Updating member CLASS

When the system date and time are correct, PTARS updates each member's dental CLASS rating. CLASS ratings of "1", "2", or "3" are assigned to members by an examining dentist. A CLASS rating of "4" indicates simply that the member is due for his/her mandatory annual dental examination. PTARS scans each record in the MEMBERS.DBF database file and checks to see if the LAST_T2 date is more than 12 months prior to the current system date. If so, it replaces the existing CLASS rating with "4". After updating member CLASS, PTARS displays the Main Menu.

Security

It is *strongly* recommended that the default password be changed after installing the PTARS program. Your data is extremely important. Inadvertent or deliberate tampering with your data by an unauthorized person can only be prevented by taking security precautions (*and* taking them seriously). In addition to keeping a secure password, it is very important that you do not leave PTARS running unattended. The temptation to do

so, however, will be great. Making regular backups of your data to floppy disk and putting them in a safe place is probably the best way to ensure against loss of data due to any cause.

Creating a start-up batch file

A DOS batch file can be created that will enable you to start PTARS at any time regardless of what directory you may currently be in, without having to type additional DOS commands. Use a text editor (or a word processor mode that does not insert hidden formatting codes) to create a batch file like the example below. The example batch file assumes that you have installed PTARS to the C drive.

C: CD\PTARS PTARS

When the batch file is complete, name it "PTARS.BAT" and place it in your root directory or any directory that is in your DOS path. Henceforth, simply type PTARS to load the PTARS program from any location. See any DOS reference for terminology assistance.





Getting around

This chapter contains the information you need to navigate the menus, forms, and fields of PTARS. It covers:

- Navigation/Action keys
- Function keys
- Using on-line Help
- Menu overview
- Main menu
- Exiting PTARS

Navigation/Action keys

Each PTARS screen shows the available commands or options. The following keys let you move around a screen, between or within fields, or perform various generic actions:

Press:	<u>To:</u>
<arrows></arrows>	move up or down one line; move left or right one character or screen
<pgup>/<pgdn></pgdn></pgup>	display previous or next screen of a multiple records screen
<home></home>	move to the start of a multiple records screen or input field
<end></end>	move to the end of a multiple records screen or input field
<backspace></backspace>	delete character to left; move back one input field
<return></return>	accept an entry; move to next field
<insert></insert>	toggle insert/typeover mode
	delete a character or record
<esc></esc>	cancel the current task

Function keys

Function keys <F1> through <F4> are assigned specific actions as described below. Pressing <alt+F1> (pressing both keys simultaneously) at any time presents a popup reminder list of the functions available. Functions are activated by pressing the assigned function key or selecting the function from the popup list. Functions are available at all times, regardless of the current activity. The functions available are:

Help <F1>

Context-sensitive help window. See the next section, "Using online Help".

Calendar <F2>

Pops-up a monthly Calendar display. It shows the current month in row and column form with the current day highlighted. You can move forward or backward in months by pressing <pgup> or <PgDn>, and in years by pressing <ctrl-PgUp> or <ctrl-PgDn>, respectively. To get back to the current date, press {T}. As with almost all operations in PTARS, press <Esc> to exit.

Poptris <F3>

A Tetris-like diversion. The object is to fill the rectangular field with the falling objects from the bottom up without leaving any open spaces. Use the numeric keypad arrows to position falling objects within the field. Pressing the number 5 key causes the shape of the falling object to change. It can be pressed repeatedly to cycle the shape of the falling object. Pressing the + arrow key causes the falling object to land immediately, hence, speeding up the activity. Additional commands/functions are displayed on-screen. Poptris code has been included by permission of Gerald F. Garcia.

About PTARS <F4>

A window containing system environment information. includes information on the operating system, computer hardware, RAM, and disk space.

Using on-line Help

On-line Help is available at all times by pressing <F1>. Help is "context-sensitive" since the Help Topic details initially displayed apply to the current PTARS screen. When the \$ symbol is present in the topic box, you can scroll down or up through the Help window to view additional text using the \(\psi\) or \(\frac{1}{2}\) arrow keys.

As shown in Figure 1, the Help window consists of two panels—one lists Help Topics and the other displays details about each Topic. At the bottom of the Topics list all fields in the various databases are identified with a " ~ " prefix and are defined. Commands available in Help are described below:

This provides a list of Topics available in the Help system. To select « Topics » a Topic you can: 1) use the arrow keys to scroll through the Topics to find the one you want or 2) type a letter or series of letters to select the first Topic beginning with those letter(s). To see details about a Topic, select the Topic and press <Return>.

<Next> This selects Help details for the next Topic in the help file list.

<Previous> This selects Help details for the prior Topic in the help file list.

Enables you to find the closest Topic match to a word that you highlight within Help details. When you highlight a word in the Help text, the <Look up> function becomes available. You highlight a word by placing the cursor at the first letter in a word using the + and - arrow keys. Then press <shift +>> to highlight the word.

This lists Help Topics that may be of interest related to the current Topic.

<Esc> Exits Help.

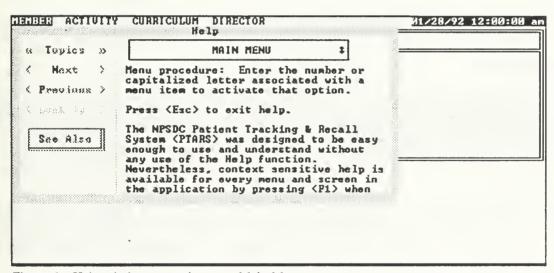


Figure 1. Help window appearing over Main Menu.

Menus overview

PTARS is a "menu-driven" system. All operations are activated by selecting options from full-screen menus, from sub-menus located at the bottom of the screen, or from pop-up menus. An option can be selected on all menus by pressing the highlighted (and capitalized) letter associated with the option. On full-screen menus the number of the menu option will also activate the option. On popup menus you can also scroll to the

desired option and press <Enter> to activate the option. Figure 2 below provides a graphical view of the major menu operations within PTARS.

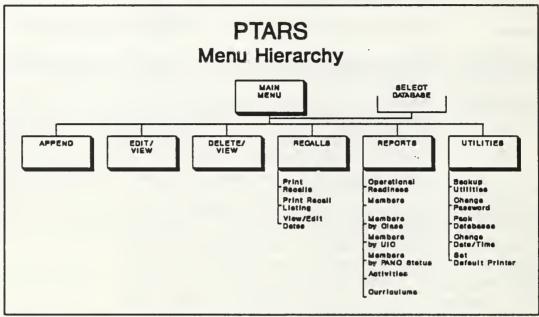


Figure 2. PTARS menu hierarchy.

Main Menu

After updating member CLASS, PTARS displays the Main Menu, as shown in Figure 3 on the next page. Each screen in PTARS continuously displays the system date and time in the upper right corner.

Selecting a database

In the upper left corner of the Main Menu the four databases of interest are identified. The active database is highlighted and blinking. By default, Members is the initially active database. The Main Menu options "Append", "Edit/view", and "Delete/view" apply only to the active database. A different database can be made active by choosing the option, "Select database", and then selecting the desired database from the popup selection list.

Exiting PTARS is discussed in the following sub-section. The remaining Main Menu options are covered in detail in subsequent chapters.

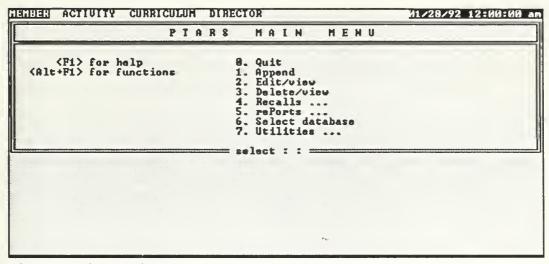


Figure 3. PTARS Main Menu.

Exiting PTARS

It is very important that you exit (quit) PTARS using the Main Menu "Quit" option. If you reboot the computer with <ctrl+Alt+Del> or shut the power off without first quitting properly, any databases which are in use at the time are vulnerable to damage. Hence, it is essential that you exit only by using the Main Menu "Quit" option.

When quitting, several things happen before the system shuts down. First, PTARS checks to see if it has been more than one month since MEMBERS.DBF has been backed-up to a floppy disk. If so, a reminder message pops-up on screen and you are given the option to perform a backup. If you choose to perform a backup, PTARS switches to the Backup Utilities Menu where you can perform your backup operations and quit when you are finished.

Next, PTARS checks to see if more than 10% of the records in MEMBERS.DBF have been marked for deletion. If so, a message pops-up and you are queried whether you want to "pack" the database. See Chapter 6 for details on packing the database.

Finally, before shutting down, PTARS queries whether you want to back-up the databases to the hard disk. This allows you to save a second copy of your session's work on the hard disk. See Chapter 6 for further coverage of backing-up.

Database updating

This chapter contains the information necessary for updating the databases by appending, editing, or deleting records. Several example screens will be shown to preview the look of PTARS when working with its various modes.

Appending Records

Select the "Append" option from the Main Menu to append records. Appending records involves adding new records to a database. New records can be appended to MEM-BERS.DBF, ACTIVITY.DBF, and CURRICUL.DBF. Unlike the foregoing three databases, DIRECTOR.DBF contains only one record. This record contains the name of the current clinic director and must always be present. Hence, it can only be edited.

As discussed in Chapter 2, PTARS starts by default with MEMBERS.DBF as the active database. You can select a different database from the Main Menu option "Select Database". To append records, press (A) from the Main Menu. A blank form will appear, ready to receive new data. You can abort from appending by pressing <Esc> and the record will not be saved.

When appending a record almost all fields require an entry. If a field is left blank and <Enter> is pressed, either a warning will appear stating that an entry is required or a popup list of valid field entries will appear. When a popup list appears, scroll to the desired field entry and press <Enter> to insert the entry into the form. Figure 4 shows the Append data entry form for Members.

If the member is an NPS student (i.e., UIC = "31405"), a field for Curriculum Number and SMC (Student Mail Center number) will appear following UIC. Alternatively, if the member is a non-student, a field for Activity Department Code will appear. Enter data into these fields as appropriate.

As a reminder, if you have any doubts regarding the contents of a certain field, be sure to utilize the Help function. Each field in all the databases is described in the Topics section of Help. Field names are prefixed with the "~" symbol and are located at the bottom of the scrollable Help Topics list.

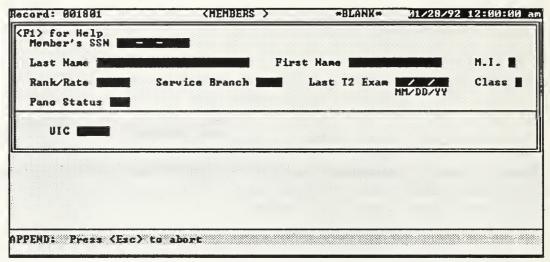


Figure 4. Append record form for Members in append mode.

After completing the data entry for a new record or after aborting an append, a sub-menu will appear at the bottom of the screen with several options:

> <Return>:add-another {E}dit {F}inished

Pressing <Return> brings up a blank form for appending another new record. Pressing (E) dit allows editing of the currently displayed record. Selecting (F) inished appends the record (if completely entered and not marked for deletion) and returns you to the Main Menu. Pressing toggles between deleting and saving the current record. For example, assume you discover an error in a record that you have just entered and you want to delete it so that you can get the correct info later and re-enter it. Press to delete it. This allows you to then press <Enter> to keep entering new records without saving the erroneous one. When a record is "Deleted" a status indicator at the top of the screen says " *Deleted* ". In the next section, forms for editing each of the databases will be displayed. The forms look very similar to the forms for appending data.

Editing/viewing records

The "Edit/view" option of the Main Menu allows you to edit records in the active database. Editing is performed with one record displayed at a time. This option also provides a means to view all the data in a record of the active database on a single screen.

As can be seen in Figure 5, the Edit/view form for Members is very similar to the Append form for Members. The difference is that the sub-menu of options available is more extensive and that additional information is shown on the form. In the lower

portion of the Edit Members form the dates of recall letters previously printed to the Member are displayed. This information can not be edited from the Edit/view screen but is for viewing only. Editing of recall dates will be discussed in Chapter 4.

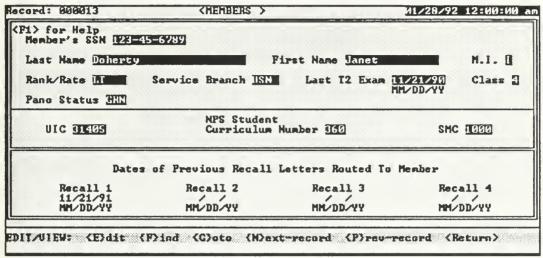


Figure 5. Edit/view form for Members.

The actions of each of the Edit/view sub-menu commands are as follows:

- (E) dit returns the cursor to the record displayed for further changes; the {E}dit sub-menu options are not available. Entry of data in edit mode is the same as when appending a new record. Pressing <Esc> when in edit mode aborts the edit and the original data is displayed.
- When editing Members, {F}ind enables you to select a specific record {F}ind by specifying a member's SSN or name. (Part of a name or even a single letter can be used. PTARS will seek the first instance of whatever you type. Specifying the person's full name provides an exact match.) Since a name is not necessarily unique, the first occurrence of a match is shown on the screen. Specify a UIC when editing an Activity and a Curriculum Number when editing a Curriculum.
- (G) oto enables you to go to a specific record number in the database. {G}oto Record numbers are listed in the top left of the edit screen.
- {N}ext-record brings up the next record. (By default, records are {N}ext sorted by SSN. When a record is "found" by name, the database is sorted by last-name + first-name.)

{P}rev-record brings up the prior record. Records are sorted as noted {P}rev above.

<Return> <Return> brings you back to the Main Menu.

Figures 6 and 7 display the Edit/view forms for the Activity and Curriculum databases, respectively. The Append forms for these databases look the same with the exception of the sub-menus.

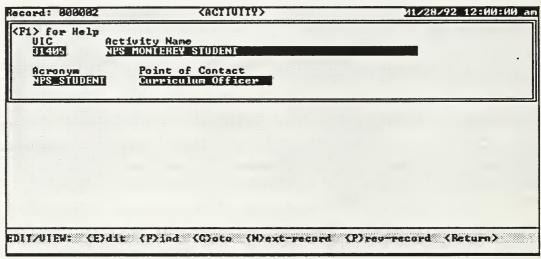


Figure 6. Edit/view form for Activity.

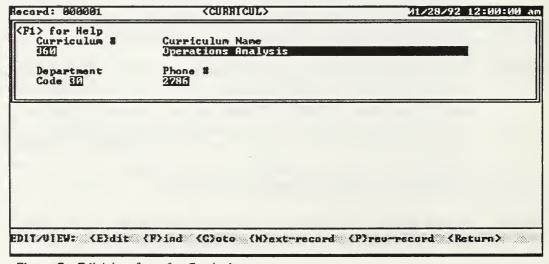


Figure 7. Edit/view form for Curriculum.

Figure 8 shows the Edit/view form for Director. As discussed, Director can not be appended to or deleted. Hence, you are automatically in edit mode when you select this form. This is because there is only one clinic Director record and it must always contain a signature name.

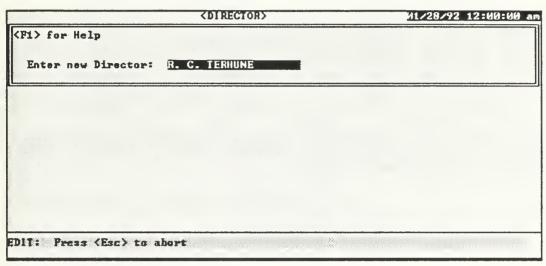


Figure 8. Edit/view form for Director.

Deleting/viewing records

Select the "Delete/view" option from the Main Menu to delete record(s) or to view multiple records on one screen. When a record is marked for deletion, an "*" appears to the left of the record. Figure 9 shows the Delete/view screen for Members. The Delete/view screens for Activities and for Curriculums operate in the same fashion as for Members. The only difference is the fields displayed on screen. When the "==>"appears in the upper right of the screen on the field column header line, additional fields exist for viewing. Pressing the right arrow key will pan the screen right to view the additional fields. Press the left arrow key to pan back to the left.

When a record is "Deleted" on the Delete/view screen, the record is not actually physically removed from the database; it is simply "marked" for deletion. This means that the record can still be recovered if you decide later that you want to "undelete" it. See the discussion of the <pel> action below for its operation. To permanently (physically) remove record(s) from a database, the database must be "packed". Chapter 6, "Utilities", provides further discussion of packing the database.

Pile: il2 Pi> for	MBERS.DBF help	DELETE/UII		1/28	1/92 12:00:0	И ат
Record# 12 34 5 6 7 8 9 10 112 113 114 115 116	SSN	LAST NAME————————————————————————————————————	FIRST NAME——— Ethel Les Antoine John Imelda Dandelion Mark Robert Mark Larry Marcello Shirley James Hamilton Jonathan	MI R Q	RAHK/RATE LI LI LI LI ENS LIJG ENS LCDR LIJG LIJG LIJG LIJG LIJG LIJG LIJG LIJG	==)
17	134-15-6789 138-38-3838	Sullivan Mears	Karen Rick	1	LIJG LT	

Figure 9. Delete/view screen for Members.

The actions of each of the Delete/view sub-menu commands are as follows:

- Performs the same action as with the Edit/view form. {F}ind
- Performs the same action as with the Edit/view form. {G}oto
- {M}ode pops-up a selection of display modes for EGA and VGA video {M}ode adapters: EGA, 25 or 43 lines; VGA, 25 or 50 lines. More lines on a screen are useful when deleting many members in a single session.
- <arrows> <arrows> refers to the direction keys for moving sideways to view panels of fields or up and down to place the cursor on different records.
- <PgDn> <PgDn> takes you to the next screen of consecutive records.
- <PgUp>
- toggles a deletion marker for a record. To mark a record for deletion, move the cursor to the record and press <pel>>. When a record is marked for deletion an "*" appears to the left of the record. To unmark a deletion, make sure the cursor is on the correct marked record and press <pel> again.

<Return> <Return> brings you back to the Main Menu.

Recalls

Recalls are the primary reason for the existence of PTARS. Each of the Service Branches require that members receive an annual dental examination (a "T2" exam), regardless of any prior need for dental treatment. Hence, members require notification prior to expiration of the 12 month period since their last exam (T2 or otherwise). Pl'ARS automates the recall (notification) process by printing initial recall letters (Recall 1) and, if necessary, up to three follow-up letters (Recall 2 to Recall 4) to members.

The following topics are covered in this chapter:

- Printing recalls
- Printing recall lists
- Viewing/editing recall dates

The Recalls Menu is accessed by selecting the "Recalls" option from the Main Menu. As shown in Figure 10, three options are available from the Recalls Menu. Each of these options will be discussed in detail in this chapter.

	M1/28/92 12:00:00 a
PTARS	RECALLS MENU
<pre><pi> for help <alt+pi> for functions</alt+pi></pi></pre>	 Exit to main menu Print recalls pRint most recent recall list View/edit recall dates
	= select : :

Figure 10. Recalls Menu.

Printing recalls

Select "Print recalls" from the Recalls Menu to immediately start printing recall letters. Note that PTARS always backs-up the current MEMBERS.DBF to the hard disk prior to beginning its print routine. Also, note that prior to printing something, PTARS always presents a "Check the printer" notification. (See Figure 11.) You are also given the option to abort the print job. It is particularly important to heed this notification prior to printing recalls since the printing volume can be over 200 pages during this process and the print job can last over 45 minutes. Moreover, as discussed below, recall dates are inserted into the Members database. Any disruption of this process is problematic.

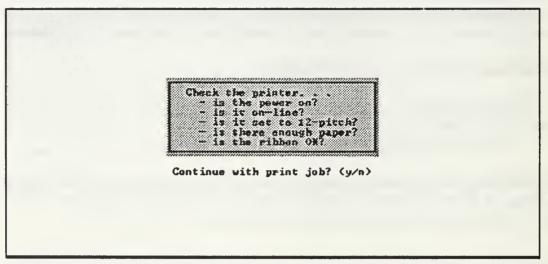


Figure 11. "Check the printer" notification.

It is important that recalls be printed at approximately the same time every month (e.g., the last day of the month or the first day of the month). This will provide consistency in the intervals that members receive follow-up letters, should they be necessary.

When you print recalls, all recall letters are printed and recall letter dates are inserted into MEMBERS.DBF. (Note: The current MEMBERS.DBF is backed-up to the hard disk before printing.) "Print Recalls" also creates a file for each recall letter category which lists members for whom a recall letter is printed (Recall1.1st to Recall4.1st). The previous recall list files are saved with a .BAK extension should they need to be examined from DOS. The logic of recall printing is described following the important section below.

IMPORTANT - The recall letter printing module automatically inserts a new recall letter date into the Members database when a recall letter is printed. It also creates files (RECALL1.LST to RECALL4.LST) containing SSNs and names of members for whom a recall letter was printed. If a printer malfunction occurs or the print job is aborted for some reason, it will be necessary to compare the file listings of the most recent recall letters against the physically printed letters. Members who are on the file listing, but for whom there is no useable printed recall letter, must have the new recall letter date deleted before the program can print a replacement recall letter. This is because the printing module checks the existing recall dates to determine if an appropriate recall letter has already been printed.

If for some reason none or relatively few usable recall letters are printed (e.g., the printer was not turned on or there was an early paper jam), you may want to consider restoring the hard disk backup that was created just prior to printing the recalls and starting over. None of the new recall dates will exist on the backup and you can fix the printer and start fresh. See "Restoring backup(s)" in chapter 6. The logic of the recall process is described below:

- Recall 1 Recall 1 is triggered after at least 10 full months + 1 day have transpired since the member's last T2 exam. Prints a memo to the member and records the print date as Recall 1 date.
- Recall 2 is triggered after at least 11 full months + 1 day have transpired since the member's last T2 exam, provided that Recall 1 date is in the database and that at least 25 days have transpired since Recall 1. Prints a memo to the member and records the print date as Recall 2 date.
- Recall 3 is triggered after at least 12 full months + 1 day have transpired since the member's last T2 exam, provided that Recall 2 date is in the database and that at least 25 days have transpired since Recall 2. Prints a letter to the member and records the print date as Recall 3 date.
- Recall 4 is triggered after at least 13 full months + 1 day have transpired since the member's last T2 exam, provided that Recall 3 date is in the database and that at least 25 days have transpired since Recall 3. Prints the letter to the member's superior (i.e., Curriculum Officer for students or to Activity POC for non-students) and records the print date as Recall 4 date.

Example recall letters 1 through 4 are shown in Figures 11 through 14 on the following three pages. Note that the text of Recall 4 indicates that Recall 3 is included as an enclosure. Thus, when routing Recall 4 letters a copy of Recall 3 should be attached. Copies of recall letters can be made by printing from double-copy paper, or alternatively, Xerox copies of just letters 3 and 4 can be made before routing them. The volume of these two letters is historically very low.

1 December 1991

MEMORANDUM (First Reminder)

From: Director, Branch Dental Clinic, Monterey

ENS Dandelion Wine, USN, 023-12-3122, NPS STUDENT (SMC 1002) To:

Subi: ANNUAL DENTAL EXAMINATION

(a) SECNAVINST 6600.1C

(b) AR 40-35

(c) AF MAN 30-130

(d) COMDTINST M6000.1B

- 1. References (a) through (d) require that all personnel receive an annual dental examination. Your record indicates that you will be due for an examination next month.
- 2. Please schedule an appointment with the Dental Clinic in person or by calling 646-2477/2478 at your earliest convenience.
- 3. If you have had a dental exam within the past 90 days, please contact the dental clinic so that we may update your record. If you have already made an appointment, please disregard this notice.

R. C. TERHUNE

Figure 11. Example Recall 1 memorandum.

1 December 1991

MEMORANDUM (Second Reminder)

From: Director, Branch Dental Clinic, Monterey
To: LCDR Robert O. Bloch, USN, 076-35-3746, NPS STUDENT (SMC 1230)

Subj: ANNUAL DENTAL EXAMINATION

(a) SECNAVINST 6600.1C Ref:

(b) AR 40-35

(c) AF MAN 30-130

(d) COMPTINST M6000.1B

- 1. References (a) through (d) require that all personnel receive an annual dental examination. Your record indicates that you will be due for an examination this month.
- 2. Please schedule an appointment with the Dental Clinic in person or by calling 646-2477/2478 within 10 days of receiving this notice.
- 3. If you have had a dental exam within the past 90 days, please contact the dental clinic so that we may update your record. If you have already made an appointment, please disregard this notice.

R. C. TERHUNE

Figure 12. Example Recall 2 memorandum.

BRANCH DENTAL CLINIC NAVAL POSTGRADUATE SCHOOL MONTEREY, CA 93943-5100

1 December 1991

From: Director, Branch Dental Clinic, Monterey

To: LT Antoine R. Andrews, USN, 012-12-1212, NDCLB

Subj: ANNUAL DENTAL EXAMINATION DELINQUENCY NOTIFICATION

Ref: (a) SECNAVINST 6600.1C

(b) AR 40-35

(c) AF MAN 30-130

(d) COMDTINST M6000.1B

- 1. References (a) through (d) require that all active duty military personnel receive a comprehensive dental examination at least once each 12 months.
- 2. A review of your dental record indicates that your last dental examination was conducted in November, 1990.
- 3. This facility attempts to assist each member by sending out computerized reminders when their annual examination is due. This was done in your case on 1 October, 1991 and 2 November, 1991 and you failed to respond.
- 4. It is my responsibility to ensure adherence to the provisions of the references. I am therefore informing you that your annual dental examination must be accomplished prior to 1 January, 1992. Failure to comply will result in further action.
- 5. You may schedule an examination in person or by calling extension 2477/2478. If you have already made an appointment, please call to confirm it.

R. C. TERHUNE

Figure 13. Example Recall 3 letter.

BRANCH DENTAL CLINIC NAVAL POSTGRADUATE SCHOOL MONTEREY, CA 93943-5100

1 December 1991

From: Director, Branch Dental Clinic, Monterey

Curriculum Officer, Operations Analysis (Code 30)

Subj: MAJOR Larry B. Herman, USAF, 256-98-6582

Encl: (1) Copy of my ltr dtd 1 November, 1991

(a) SECNAVINST 6600.1C Ref:

(b) AR 40-35

(c) AF MAN 30-130

(d) COMDTINST M6000.1B

- 1. Per references (a) through (d), all active duty military personnel are required to have an annual dental examination. The Branch Dental Clinic, Naval Postgraduate School, contacts individuals requiring examination by sending them a recall notice via the mail. Dental records of personnel that do not respond and exceed the one year limit are marked accordingly and then another recall notice is sent.
- 2. MAJOR Herman was sent both recall notices and after failing to respond was sent enclosure (1). He/She once again has failed to respond and I must now assume that he/she does not intend to comply with the references.
- 3. It is requested that MAJOR Herman be appropriately counseled and directed to call extension 2477/2478 to schedule his/her annual dental examination. If you have any questions please feel free to call me at any time.

R. C. TERHUNE

Figure 14. Example Recall 4 letter.

Printing recall lists

Select "pRint most recent recall list" from the Recalls Menu. This option lists (to the printer only) the most recent recall letter information. (The same information is listed to the screen during the printing of the recall letters.) Use this option in the event of a printer malfunction when printing recall letters to compare physical letters against what the program "thinks" it printed. Popup options are presented to select which listing to print. Figure 15 depicts an example listing of Recall 3.

Listing of me	ost recent	Recall	3 letters.	Created	01/23/92	at 12:00.
SSN	Last Name		Fi:	rst Name	MI	Last T2
012-12-1212	Andrews		An	toine	R	07/14/90
089-64-3585	Morrison		La	rry	R	02/17/89
123-92-9292	Alexander			milton	A	07/12/90
133-21-3838	Zamfir		Jo	nathan	L	07/12/90
145-89-4509	Lane		Lo	is	A	04/12/90
149-34-9321	Connors		Ji	mmy	P	06/14/89
234-58-9234	Delbert		Ar	nold		07/12/90
282-38-2881	Cricket		Ji	miny		07/28/90
283-82-3843	Dean		La	rry	X	07/30/90
336-29-3121	Maples		Ve	ronica	S	12/25/89
342-34-5245	Tillerman		Te	aforthe		09/01/90
345-21-6587	Rogers		Ma	ybelle	T	12/11/89
345-92-0394	Newman		Al	fred	E	04/21/90
383-83-8383	Name		Ne	w		07/12/90
408-45-9084	Stevenson		Ro	bert	L	04/21/89
427-84-8320	Diller		Ph	yllis		02/19/90
489-43-8438	Bell		Dai	bney		08/12/90
494-59-3493	Dillo		Arı	ma	A	07/12/90
•		•		•	•	•
•		•		•	•	•
•		•		•	•	•

Figure 15. Example listing of Recall 3.

Viewing/editing recall dates

The "View/edit recall dates" option of the Recalls Menu provides a means for viewing recall letter dates for multiple records and for accessing individual records for recall letter date editing. This facility should be used in conjunction with the previously discussed recall listings in the event of a printer malfunction when printing recall letters. The sub-menu options of the View Recalls screen shown in Figure 16 are the same as the like-named options discussed in Chapter 3 for the Delete/view screen. Since recall dates are a subset of the fields in the Members database, records can not be deleted using View Recalls.

help	UIEW RE	CALL DATES		111720772	12-80-00
SSN	LAST NAME. PI	RECALL_1	RECALL_2	RECALL_3	RECALL_4
000-00-0002	Herman, E	11/01/98	12/02/99	81/18/91	10/12/91
001-00-0003	Miserables, L	11	11	11	11
012-12-1212	Andrews, A	09/03/91	10/04/91	11	11
012-93-8475	Adams, J	07/18/90	08/18/90	09/18/90	10/12/91
022-20-0000	Marcos, I	11	11	11	11
023-12-3122	Wine D	11	11	11	11
039-39-2828	Lincoln. M	11	11	11	11
076-35-3746	Bloch, R	10/04/91	11		111
083-82-7827	Mathews. M	11	11	11	11
		89/16/98	10/04/91	11	11
		11	11	11	11
					11
					10/04/91
					11
					11
					10/04/91
138-38-3838	Mears, R			/ /	11
	SSN	SSN———————————————————————————————————	000-00-0002 Merman, E 001-00-0003 Miserables, L 012-12-1212 Andrews, A 012-93-8475 Adams, J 022-20-0000 Marcos, I 023-12-3122 Wine, D 039-39-2828 Lincoln, M 076-35-3746 Bloch, R 089-64-3585 Morrison, L 109-28-3746 Laverne, S 123-45-6789 Doherty, J 123-58-9213 Madison, J 123-92-9292 Alexander, H 133-21-3838 Zamfir, J 09/16/91 134-15-6789 Sullivan, N	SSN———————————————————————————————————	SSN———————————————————————————————————

Figure 16. View Recalls screen.

As discussed previously, the purpose of editing recall letter dates is to enable PTARS to print a replacement recall letter. If a recall letter date is present for a given recall letter, the program will only be able to print the *next* letter when the eligibility date for the *next* recall letter arrives. To reprint a letter, the recall letter date *must* be deleted *and* there *must not* be a subsequent recall letter date present. If this sounds confusing, reread the previous coverage of "Printing Recalls".

To edit a member's recall dates, press {E}. The current row of the display will be highlighted and placed into edit mode. Use normal editing and movement keys to edit the date(s). Note that edited dates are checked for chronological consistency as well as general date validity (i.e., can not be later than the current date, must have a prior recall, can not be missing a recall between recalls, values must be chronologically correct for existent recalls).

Reports

This chapter discusses the various reports available in PTARS and provides several example figures to preview the look of the reports. The Reports Menu, shown in Figure 17, is accessed from the Main Menu by pressing {P}. The Operational Readiness Report is available to both the screen and the printer. The other reports (rosters) are sent to the printer only.

Figure 17. Reports Menu.

Operational readiness

The Operational Readiness Report provides counts and percentages of members in each of the dental CLASS categories. The report is initially displayed to the screen and you are given the option of printing it. Operational Readiness is defined as the percentage of all members served by the clinic who are classified as CLASS 1 or 2. As can be seen in Figure 18, the Operational Readiness percentage is a simple summation of the CLASS 1 and CLASS 2 percentages.

	OPER	ATIONAL READIN All Membe		January	28,1992
CLASS CATEGORY:	Class 1	Class 2	Class 3	Class 4	TOTAL
MEMBER COUNT:	1152	566	111	91	1920
PERCENT OF TOTAL:	68x	29×	5.82	4.7%	100%
	IESS: 89×				
PANO CATEGORY:	Green	Red	Yellow		TOTAL
PANO CATEGORY: PANO COUNT:		Red 21	Yellow 46		TOTAL
	Green	21 1.1×	46 1.9%		
PANO COUNT:	Green 1853	21	46 1.9%		1920

Figure 18. Operational Readiness Report to screen.

Also included in the report are counts and percentages of members whose Pano X-rays are in a given status. Three Pano status categories exist and are designated by standard color designations:

GRN (Green)	Pano is accepted and on-file
RED	Pano has been duplicated and forwarded
YLW (Yellow)	Pano is not on-file and has not been duplicated and forwarded

Rosters

The remaining reports available from the Reports Menu are basically rosters sorted on various fields of interest. After selecting any of the Members reports a popup will offer a selection of whether to list members by SSN or alphabetically. If printing Members by dental CLASS, a popup will allow selection of a specific CLASS or all members. If printing Members by Pano status, a popup will allow selection of a specific status or all members. Figure 19 provides an example roster of Members listed by SSN that could be printed by selecting option 2, "Members (all)", from the Reports Menu.

Selections 6 and 7 from the Reports Menu print complete rosters of the Activities and the Curriculums contained in their respective PTARS databases.

Periodic comparison of Member rosters against data from both PSD and the Registrar will help keep member data up-to-date. Current listings of the Curriculums at NPS should also be obtained from the Registrar so that the Curriculum database can be kept up-to-date.

OR OFFICIAL	USE ONLY Men	mber Listin	g by SSN			Ja	nuary 2	28, 199
SSN	NAME	RANK	SERVICE BRANCH	UIC	SMC/ CODE	LAST T2 EXAM	CLASS	PANO STATU
000-00-0002	Merman, Ethel	LT	USN	63134	1000	03/21/89	4	GRN
001-00-0003	Miserables, Les	LT	USN	45210	1000	03/21/91	1	GRN
012-12-1212		ĹŤ	USN	35728		07/14/90	i	GRN
012-93-8475		ENS	USN	31405	1280		4	YLW
022-20-0000		CAPT	USA	TRAC		09/12/91	1	RED
023-12-3122	Wine, Dandelion	ENS	USN	31405	1002	07/30/90	4	GRN
039-39-2828	Lincoln, Mark	ENS	USN	31405	1010	11/17/90	4	GRN
076-35-3746	Bloch, Robert O.	LCDR	USN	31405	1230	01/05/90	4	YLW
083-82-7827	Mathews, Mark M.	LTJG	USN	35728		04/12/91	1	YLW
089-64-3585	Morrison, Larry R.	LTJG	USN	31405	1343	02/17/89	4	RED
102-20-0000	Mastroiani, Marcello O.	LT	USN	31405	2030	09/12/91	1	GRN
109-28-3746	Laverne, Shirley	DT2	USN	35728		07/30/91	4	GRN
123-45-6789	Doherty, Janet I.	LT	USN	31405	1001	11/21/90	4	GRN
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
			•		•	· · · ·	•	•
568-46-4321		YN3	USN	43073		06/03/91	1	GRN
571-56-3636		ENS	USN	31405	1776	07/12/90	4	GRN
574-84-3823	Than, Smaller X.	LCDR	USN	31405	2312	07/12/91	1	GRN

Figure 19. Members (all) roster sorted by SSN.

Utilities

This Chapter explains the various utilities included with PTARS that support proper maintenance of the databases. The Utilities Menu is accessed by pressing {u} from the Main Menu and is shown in Figure 20.

It contains the following sections:

- Backup utilities
- Changing the password
- Packing the database(s)
- Changing the date or time
- Selecting the default printer

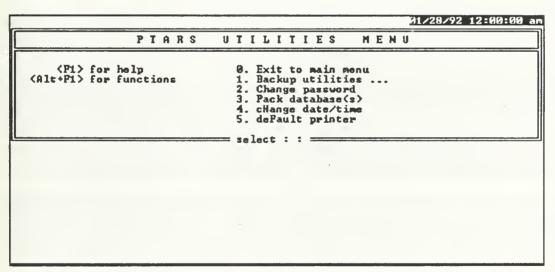


Figure 20. Utilities Menu.

Backup utilities

The backup utilities are a collection of utilities related to backing-up and restoring the four database files MEMBERS.DBF, ACTIVITY.DBF, CURRICUL.DBF, and

DIRECTOR.DBF. The Backup Utilities Menu, shown in Figure 21, is accessed from the Utilities Menu by pressing (B). Each of the menu selections will be discussed in the sub-sections below.

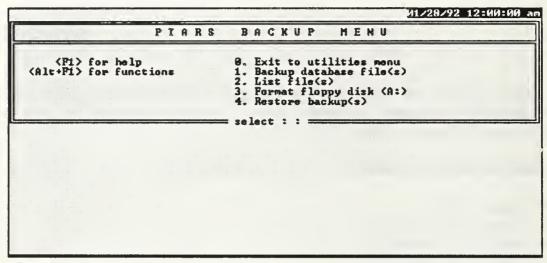


Figure 21. Backup Utilities Menu.

Backing-up database(s)

When you first select Backup, a popup will appear allowing you to select whether you want to back-up to the hard disk or the floppy disk in drive A. Next, another popup appears to let you select which database file(s) (i.e., MEMBERS.DBF, ACTIVITY.DBF, CURRICUL.DBF, DIRECTOR.DBF, or all) to back-up. Once your selection is made, Backup copies the selected file(s) to the destination drive. Backing-up to a floppy keeps a reserve copy of the data that can be restored in case something happens to the computer, hard disk, or the data. Backing-up to the hard disk is convenient for short-term backups, but is not sufficient for best reliability. Note that the PTARS program presents the option to back-up the databases to the hard disk prior to guitting a session.

Your data should be backed up to a floppy disk weekly and immediately following input or editing sessions involving many records. It is a good idea to keep two or three backup floppies in rotation—writing over the oldest backup each time. Always label your backups to floppy disk with the file names and their creation dates. This will help you to identify your backups later if you need to restore them. Hint: use a pencil to label your backups; you can use several floppy disks over and over again by erasing and writing the new information.

Remember, there is only one way to ensure the safety of your data: rigorous adherence to a regular program of backing-up.

Listing files

A popup menu allows selecting the hard disk PTARS subdirectory or floppy disk A: for listing files. Either just database files can be displayed or all files can be displayed. When database files are displayed the following information is included: file name, number of records, last update, file size, total bytes in database files, and bytes remaining on the drive. When all files are displayed, file names are listed and total bytes used in the files and bytes remaining on the drive are presented.

This utility is useful for identifying files that might already exist on a diskette that will be used for backups.

Formatting a floppy disk

Formats a 360Kbyte or a 1.2Mbyte floppy disk (5 ¼") placed in drive A. A popup presents three options:

360K> 360K	Formats from a 360K capacity drive to a 360K floppy
1.2M -> 360K	Formats from a 1.2M capacity drive to a 360K floppy
1.2M -> 1.2M	Formats from a 1.2M capacity drive to a 1.2M floppy

The first number indicates the actual drive-type. For example, your machine may only be capable of formatting 360K floppy disks, as in the first option. The second number indicates the floppy disk formatted capacity. A new floppy disk must be formatted so that the Disk Operating System (DOS) can read and write data to it.

Restoring backup(s)

When you select "Restore backup(s)", a popup enables selectively replacing database file(s) with backups from the hard disk or a floppy disk.

At the end of every session with PTARS you are presented with the option to backup the databases to the hard disk. If you choose to do so, four backup database files, MEM_BU.DBF, ACT_BU.DBF, CUR_BU.DBF, and DIR_BU.DBF are created in the PTARS subdirectory of your hard drive. These files can be restored (either singly or together) to MEMBERS.DBF, ACTIVITY.DBF, CURRICUL.DBF, and DIRECTOR.DBF, respectively. The restored backups overwrite the current database file(s).

Note that backing-up to the hard drive does not protect your data from hard drive or computer failure since the backups reside on the same machine as the original data. The feature is useful, however, if your original data becomes corrupted for some reason but your backups are still OK. In addition, it may be useful in the event you have experienced a printer malfunction (e.g., your printer ribbon gave up the ghost) and you have many unusable recall letters. Rather than editing recall dates and printing again,

it may be advantageous to restore the backup of MEMBERS.DBF (which PTARS always makes before printing recalls) and start over.

A final method of restoring any database is to manually copy the file using DOS commands. This method should never be necessary since the capability is built into PTARS. If for some reason you should need to manually restore a *.DBF file. be sure that any like-named compound index file (*.CDX) is erased (e.g., from the DOS prompt: del c:\ptars\members.cdx) This is because a unique index file is created and updated by PTARS for each database. If the index file does not "belong" to the specific version of a database, PTARS will not perform properly and will give an error notification.

Changing the password

You can change the current password to a new password (it must have 6 characters). Make sure that you remember the new password. If you ever forget your new password, copy the file NPS MISC.DBF from disk 3 of your backup copies of the installation disks to the sub-directory \PTARS (e.g., copy a:\nps misc.dbf c:\ptars). The original password is "zyxabc". This default password should be changed immediately after you install PTARS. (If you can read it here, so can someone else.) Note that the password is encrypted in the file NPS MISC.DBF and cannot be deciphered if it is forgotten.

Figure 22 shows the screen for changing the password. As you type your new password, a dot will appear for each character typed. As shown in the figure, to verify that you typed what you thought you typed, PTARS prompts for a second entry of your new password. If the two entries do not match, the password change will be aborted.



Figure 22. Password change screen.

For effective security it is a good idea to periodically change your password. If an unauthorized individual inadvertently (or even deliberately) changes or damages your data, it could be a catastrophe. Regarding security, just think about having to re-enter over 1900 records!

Packing the database(s)

Packing the database(s) permanently deletes records "marked" for deletion from one or all of the three primary databases: MEMBERS.DBF, ACTIVITY.DBF, and CURRICUL.DBF. It also physically sorts the databases. MEMBERS.DBF is sorted in ascending order by SSN; ACTIVITY.DBF is sorted in ascending order by UIC; and CURRICUL.DBF is sorted in ascending order by curriculum number. Packing improves the performance of PTARS by reducing the physical size of the database(s) and reorders the records by the primary key. Note that the effects of packing are not "undoable". An informational prompt will appear upon quitting a session when 10% or more of the MEMBER.DBF records are marked for deletion. You should heed the prompt and pack the database (unless you have some good reason not to).

Changing the date or time

After selecting the "Change date or time" option a popup for selecting which to change (date or time) appears. After your selection is made you are prompted to enter the date or time using the example format shown on the screen. The system date or time can also be changed when starting the PTARS program. As part of the opening screen routine the user is prompted to verify the system date and time. If the system date or time displayed is incorrect, enter the correct date or time using the example format shown on the screen.

Selecting the default printer

You should select the default printer before printing anything from PTARS for the first time. After choosing this option from the Utilities Menu, PTARS pops-up two common printer emulations for dot matrix printers: (1) Epson E/F/J/RX/LQ emulation and (2) IBM Proprinter emulation. The emulation you select becomes the default for all subsequent sessions. The Epson emulation is supported by the majority of 9 pin dot matrix printers and PTARS uses it as the initial default. The default printer identifier is stored in a field in the NPS_MISC.DBF file.



Optimizing PTARS

This appendix identifies several ways that you can optimize the performance of PTARS if you have certain hardware or software capabilities. It contains the following sections:

- Disk defrag/compress
- Memory
- Config.sys
- Pack the database(s)

Disk defrag/compress

The performance of PTARS can be significantly improved if a disk defragment/compression procedure is performed on your hard drive periodically. Over time the database files will become fragmented as records are appended, edited and deleted. This slows down disk reads and writes since each file is no longer one contiguous piece; files can become many pieces scattered all over the disk. Defragment/compression utilities are available commercially.

Memory

PTARS will take advantage of all types of computer memory. If your computer is configured correctly, PTARS' performance will be enhanced. Note that if you change your computer's memory configuration or add a disk cache program, you must reinstall PTARS so that it operates optimally.

Personal Computers (PC)s can contain three types of memory: conventional, expanded and extended.

Conventional Memory

All PCs can contain conventional memory (up to 640K). This is the memory that programs typically load into and run in. PTARS requires that you have at least 512K of conventional memory with at least 420K of it free after memory resident programs have been loaded. A minimum of 640K is strongly recommended.

Expanded Memory

The 8086 family of microprocessors have a physical address space of 1024K, or 1MB. The first 640K is the conventional memory space discussed above. The remaining 384K is reserved for use by read-only memory (RAM) and hardware device controllers. Also, within this area of memory, a 64K block can be reserved for use by an expanded memory manager which conforms to the Lotus/Intel/Microsoft interface specification (a LIM EMS Memory Manager).

The Expanded Memory Manager (EMM) administers expanded memory as a system resource that can be used by several applications at the same time and services EMS function calls. EMS memory is bank-switched memory that can be larger than the CPU's address space that is mapped into conventional memory via the EMS page frame.

On machines with expanded memory that is LIM 4.0 EMS compatible, PTARS uses the first 64K of expanded memory as "general purpose" memory and any remaining expanded memory to speed file I/O and to cache PTARS code segments.

To check how much EMS is currently being used by PTARS, look in the "About PTARS" box (by pressing <F4> or <Alt+F1>).

If you run on an 80386 or 80486 you're in luck! There are many inexpensive programs that use extended memory to emulate EMS, such as QEMM from Quarterdeck and 386MAX from Qualitas. MS-DOS 5.0 includes EMM386. On a 386 always use QEMM, 386Max, or other expanded memory managers. You'll be glad you did!

If you use a non-80386 processor you have several options. First, you could invest in an EMS board. These pieces of hardware, which usually work with both 8086/88 and 80286 processors, include substantial amounts of memory together with driver programs which provide the software interface to the board.

Extended Memory

Extended memory is memory that lies above the 1MB address range. It can be used directly by some operating systems (OS/2 and UNIX), but standard DOS cannot address it without the use of an Extended Memory Specification (XMS) driver, an interface that allows access to memory beyond 640K. Applications using this address space must be running in protected mode.

Extended memory cannot be used directly by PTARS until it is made to act like EMS. How you make extended memory act like expanded memory is dependent on your system, but typically you install a memory manager -- software that provides an EMS style (LIM 4.0) interface to extended memory. Once the extended memory is emulating EMS memory, PTARS will sense that it is there and make good use of it.

Config.sys

The system configuration file, CONFIG.SYS, contains certain commands that are checked and executed when you start up your computer. These commands change your computer's default configuration.

CONFIG.SYS is not a PTARS file. It's a file that DOS uses to establish the working environment. Because PTARS interacts with this environment, you must be sure that certain settings are properly established. Two CONFIG.SYS statements are of immediate importance to PTARS:

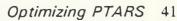
BUFFERS The BUFFERS statement contains the number of disk buffers that DOS sets aside in memory when your computer is started. A disk buffer is a block of memory (typically 512 bytes) that DOS uses to hold data when reading and writing from disk. For best performance with PTARS, the CONFIG.SYS file should contain a BUFFERS statement with a number between 20 and 40 (e.g., BUFFERS=30).

FILES The FILES statement sets the number of files that DOS can open and access at one time. This number is directly related to the number of files that PTARS will be able to open. The FILES statement in CONFIG.SYS should always be at least 25 (e.g., FILES = 25).

See your DOS manual for complete details on the CONFIG.SYS file and the various statements it can contain.

Pack the database(s)

Packing the databases is covered in Chapter 6.





File definitions

The files listed below (with their definitions) are installed by Setup into the "\PTARS" hard disk subdirectory. These files are essential to the operation of PTARS. Three of the files, FOXPRO.ESL, FOXPRO.ESO, and PTAR.EXE are in compressed form on the installation disks and will not work if copied directly from the floppy disk to your hard drive. All of the other files installed by PTARS are in normal form on the installation disks.

PTARS files

CONFIG.FP resource pointer file database routines library FOXPRO.ESL database routines library FOXPRO.ESO

extended memory (512K req'd) disk cache utility CACHE.COM

contains encrypted password, default printer, backup date NPS MISC.DBF

contains configuration information NPS USER.DBF NPS USER.FPT memo file for configuration information

PTARS executable program PTAR.EXE PTARS.COM PTARS loader program

NPSDC database files

contains UIC information ACTIVITY.DBF

CURRICUL.DBF contains student Curriculum information DIRECTOR.DBF contains current Director signature name

contains Member information MEMBERS.DBF

The following files are created during the operation of PTARS and may or may not be present at any given time:

compound index file for ACTIVITY.DBF
compound index file for CURRICUL.DBF
compound index file for MEMBERS.DBF
hard disk backup of ACTIVITY.DBF
hard disk backup of CURRICUL.DBF
hard disk backup of DIRECTOR.DBF
hard disk backup of MEMBERS.DBF

RECALL1.LST
RECALL2.LST
RECALL3.LST
RECALL4.LST
RECALL1.BAK
RECALL2.BAK
RECALL3.BAK
RECALL4.BAK
RELATE1.VUE
RELATE2.VUE

most recent listing of members receiving recall 1 letter most recent listing of members receiving recall 2 letter most recent listing of members receiving recall 3 letter most recent listing of members receiving recall 4 letter previous listing of members receiving recall 1 letter previous listing of members receiving recall 2 letter previous listing of members receiving recall 3 letter previous listing of members receiving recall 3 letter previous listing of members receiving recall 4 letter PTARS environment file



Database specifications

Members.dbf

Field-name	Type	Length	<u>Usage</u>
SSN	Character	11	Social Security Number unique, mandatory, key field
LAST_NAME	Character	23	Last Name mandatory
FIRST_NAME	Character	15	First Name mandatory
MI	Character	1	Middle Initial if available
RANK_RATE	Character	5	Rank or Rate mandatory
BRANCH	Character	4	Service Branch mandatory, popup list
LAST_T2	Date	8	Last-T2-Exam date mandatory
CLASS	Numeric	1	Dental Class mandatory, range (1 - 4), PTARS updated
PANO	Character	3	Pano X-ray status mandatory, popup list
UIC	Character	5	Unit Identification Code mandatory, popup list, linked with ACTIVITY.DBF (used in "To:" line of recall letters to students)
CURR_NUM	Character	3	Curriculum Number mandatory for UIC 31405, popup list, linked with CURRICUL.DBF
SMC/CODE	Character	4	Student Mail Center number/Department Code if available (used in "To:" line of recall letters)
RECALL_1	Date	8 .	Recall 1 letter date PTARS created, editable
RECALL_2	Date	8	Recall 2 letter date PTARS created, editable
RECALL_3	Date	8	Recall 3 letter date PTARS created, editable
RECALL_4	Date	8	Recall 4 letter date PTARS created, editable

Activity.dbf

Field-name	Type	Length	<u>Usage</u>
UIC	Character	5	Unit Identification Code unique, mandatory, key field
ACRONYM	Character	11	Acronym for UIC mandatory (used in "To:" line of recall letters 1 - 3)
ACT_NAME	Character	47	UIC Name mandatory (used in "To:" line of recall 4 letter)
POC	Character	20	UIC Point of Contact mandatory (used in "To:" line of recall 4 letter)

Curricul.dbf

Field-name	<u>Type</u>	Length	<u>Usage</u>
CURR_NUM	Character	3	Curriculum Number unique, mandatory, key field
CURR_NAME	Character	46	Curriculum Name mandatory (used in "To:" line of recall 4 letter applicable to students)
DEPT_CODE	Character	2	Department Code of Curriculum mandatory (used in "To:" line of recall 4 letter applicable to students)
PHONE_NO	Character	4	Curriculum Office Phone Number mandatory

Director.dbf

Field-name	<u>Type</u>	Length	<u>Usage</u>
DIRECTOR	Character	20	Director signature mandatory (format as per signature
0000000000			line of recall letters)

APPENDIX D: RELATION DEFINITIONS

MEMBER

<u>Item</u>	Type	Length
SSN	Character	11
Last-name	Character	23
First-name	Character	15
MI	Character	1
Rank_rate	Character	5
Branch	Character	4
Last_T2	Date	8
Class	Numeric	1
Pano	Character	3
UIC	Character	5
Curr-num	Character	3
SMC/Code	Character	4
Recall_1	Date	8
Recall_2	Date	8
Recall_3	Date	8
Recall_4	Date	8

ACTIVITY

<u>Item</u>	<u>Type</u>	Length
UIC	Character	5
Acronym	Character	11
Act-name	Character	47
POC	Character	20

CURRICULUM

<u>Item</u>	Type	Length
Curr-num	Character	3
Curr-name	Character	46
Dept_code	Character	2
Phone_no	Character	4

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System: NPSDC PATIENT TRACKING & RECALL SYSTEM Author: LCDR Impathy P. Steale, MSC, USH File List List List

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	PO. PRG	NPS_UTIL.PRG NPS_BU.PRG	PRG	NPS_PROC.PRG NPS_OPEN.PRG NPS_APPE.PRG	CA. PRG	PRG PRG	NPS_DPROC.PRG NPS_OPEN.PRG NPS_APPE.PRG NPS_E01T.PRG	PRG	NK_RATE NPS_PROC.PRG NPS_BROW.PRG	D_CNT NPS_PROC.PRG NPS_BU.PRG	IT CA.PRG	CA.PRG	ALL 2 NP5_RECA.PRG	CA. PRG	CA.PRG	OC. PRG	ENU CA.PRG	CA. PRG	ECALL_1 NPS_E01T.PRG NPS_BROW.PRG NPS_RECA.PRG	1 T. PRG	NPS_BROW.PRG NPS_RECA.PRG	SECALL_3 NPS_E01T.PRG NPS_BROW.PRG	CA. PRG	NPS_BROW.PRG NPS_RECA.PRG	CA.PRG	CNUT NPSDC.PRG NPS_PROC,PRG	
	NPS RE	IN SAN	DEPT BAR	25 24 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3	NPS_BROW.I	ROPETROU NPSDC.I	16 S S S S S S S S S S S S S S S S S S S	AUTBU NPSDC.PRG	NANK_RATE	KCD_CNT NPS_PRI	ECALLECNT NPS_RECA.PRG	ECALL1 NPS_RECA.PRG	ECALL2 NP5_RE	ECALL3 HPS_RECA.PRG	ECALL 4 NP5_RECA.PRG	ECALLS NPS_PROC.PRG	ECALLS_NENU NPS_RECA.PRG	ECALL_BCNT NPS_RECA.PRG	MPS BR	ALL 2	NPS BR	MPS_E0	NPS RE	NPS_BR	RECDISPLAY NPS_RECA.PRG	RECNUM NPSDC.(
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																						239 243 250 251H		s	29 1557 1566 1567	S7 1568* 1568 1570*
28	97	\$	*	81V 128 137 140	25V 37* 41 90 92 333V 345* 347 385 387	(procedure in MPS_EDIT.PRG) 176 1941	164	(procedure in NPS_UTIL.PRG) 30 81!	(procedure in NPS_PROC.PRG) 1211 1407!	(procedure in NPS_PROC.PRG) 1240 14861	(procedure in NPS_PROC.PRG) 1218 1428!	(procedure in MPS_RECA.PRG) 545 5981	(procedure in NPS_RECA.PRG) 547 4181	(procedure in NPS_RECA. PRG)	(procedure in MPS_RECA. PRG) 571 4571	(procedure in NPS_PROC.PRG) 1220 14481	(procedure in NPS_PROC.PRG) 1321 154 423	131	47 51 428= 61= 24	(procedure in NPS_UTIL.PRG) 215 233 242 251 269!	335V 358 431 432 674 675=	(procedure In MPS_0PEN: PRG)	(Procedure in NPS_RECA.PRG) 432 6731 676 679 686 687x	1527 1531 1537 1553 1559* 1565 1575	1528V 1532 1538* 1545* 1545 1546 1550 1568 1570 1572	1528V 1512 1515* 1546* 1546 1553* 1557 1568* 1568 1570* 1570 1575* 1578
UICN NPS_OPEN. PRG	UICS NPS_OPEN.PRG	UIC_NAM NPS_REPO.PRG	UIC_SSN NPS_REPO.PRG		UP ARROW NPS_BROW.PRG NPS_RECA.PRG	UPDATEREC NPS_EDIT.PRG	UTILITIES NPS_PROC.PRG	UTILITY_MENU NPS_UTIL.PRG	VAL_BRAN NPS_PROC.PRG 13	VAL_CURR NPS_PROC.PRG 13			VAL_RECZ NPS_RECA.PRG		VAL_REC4 NPS_RECA.PRG	VAL_UIC NPS_PROC.PRG 13	VIEUBROU NPS_PROC.PRG NPS_BROW.PRG NPS_RECA.PRG	VIEW_RECALLS NPS_PROC.PRG	MARN NPS.DC.PRG NPS_UTIL.PRG NPS_PACK.PRG	LANGNING NPS_UTIL.PRG	MARN_CNT NPS_RECA.PRG	LANEN_DBF NPS_OPEN.PRG	LARRA_UTNDOW NPS_BECA. PRG	MORD_LINGTH NPS_PROC.PRG 19	MRK_CHAR NPS_PROC.PRG 19	MRK_PASS NPS_PROC.PRG 11

Procedure 411s; C. VTARS UPSOC. PRG	91 D0 CASE 92 CASE asinchoice 9 "O" sraturniay 93 SET CDUR TO BY M.M. M.V.
Proces 6 Process ENV. 2810F	
PROMPTBU	
. PACK_CHECK	96 Un promptibu 97 sPrompt for PACK 14 more than 10% records deleted before quit
· CONFIG_CHECK	8 u s
Calls: ENV-SETUP (procedure in NPSDC.PRG)	99 aBackup the databases before quitting 100 if (bu) 8814 backing up to 4100py before quitting
SET_POP (procedure in NPSDC.PRG) .	101 row_hard_bu ** 11
PROTPIBU (procedure in NPSDC, PRG)	104 EMD1F 105 @ row_hard_bu,33 SAY * * COLOR G+/N
4 GETKEY (procedure in NPS_PROC.PRG)	
	108 @ row_hard_bu + 2,14 SAY "Backup databases to hard diek before qu
NPS_E01T, PRG	o) itting7 (v/n)*
, NPS_RECA.PRG	
I NPS_REPO, PRG	111 : IF choice • "Y" 112 SET CURSOR OFF
	113 DO quitbu
Documented 01/28/92 at 09:00 FoxDoc version 2.10	
医加克氏试验 医多种性 医克拉氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏 医阿拉氏氏试验检试验检检检检验	
MProgram opedc.prg (PIAKS main module)	
DO env_sstup	
Open PROCEDURE #118.	120 @ 0.0 SAY "PTARS 1.0 - Mormal shutdown." COLOR N+/N
PROCEDURE TO mps_proc	
restate = "W/N.N/W"	
9 mStatusAtr = "U+/N.N.W"	
OMPORAT = TH-/N.N.W.	
Begin introductory screen. Password test, date/time check	127 @ 24,0 SAY "MORKING" COLOR W/N"
DO nps_intr nDeclars Global memory variables.	
PRIVATE	
open_cnscss.no_dby .mprompt.nipicpic.soos.prnstat,mprint,scount, ; sprintcnt.rptnase.marn.rsq_space.norelatel.norelate2.abu	
NE .F. TO open_checks.no_db#	133 leadited m .F.
ARE 0 TO acount	CASE mainchoice # "0"
ME ** To mode, rptname, warm	
ME "N" TO prostat	
ME .T. TO abu && paraets to nos_opsn	139 CASE asincholos • *R*
VATE	
Du.pgdh.pgub.rsturnksy.delrecord.APPE.; dhiosae dhisraa dhiosaesaa odaordar taedited .	141 MPrint Mecalis e
promptbar.promptrow, walnchoics, menuchoics, choice, i	
lestrec.recnum.oldrscnum.sxpr.isvalid	
ME .r. 10. bu.padh.paup.returnksv.delrecord.APPE.,	145 M nestrate
dbiname, dbiarsa, dbipagenax, ndxorder, isedited, ;	
promptbar, promotrow, mainchoics, menuchoics.choics, ;	148 NSeiect a database
lestren.recous.oldrennus.expr.ievelid	
PRIVATE	
mssn.mlast_name.mftrst_nam.mmd.mrank_rate.s	
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MCLUTI_nust.scurr_nase.scept_code.monone_no	15/ FI
msso.slast_name.sfirst_nam.mmi.mrank_rate.;	
wbranch.actass, mpano, autc, acurr_nus, wsac, :	
Buildb.wact_name.macronyw.mpoc.;	161 M) (Alia, Popula) (Archeckus to MPS PROF PRO)
STORE CTOD(* / / *) TO,	# POPTRIS, PRG
slast_t2.mrecail_i,mrecall_2,mrscall_3.mrecall_4	ī
Define popups	165 M) FUNC_LIST (procedure in NPS_PROC.PRG)
DO SEC_PUBLISE Global memory variables and OPEN file(s).	* TOTAL TOTA
objects * 1.	168 m) Other Files: NPS_USER
methochoice "m"	
MExecute mein loop.	17 м направинация придели при при при при при при при при при пр
M Display main menu and get choics.	173 CLOSE ALL

```
174 SET TALK OFF
175 SET DEFALLT 10 SYS(2004)
175 SET DEFALLT 10 SYS(2004)
177 SET DEFALLT 10 SYS(2004)
177 SET DEFALLT 10 SYS(2004)
177 SET CACOR 10 W/M
179 TO CACOR 10 W/M
180 WAIT "NPS_USER.DBF file not found. Program quitting..." WINDOW THEOUT
181 0.01 SET CACOR 10 SYS(10 SET 10 W/M
183 SET CACOR 10 SYS(10 SET 10 W/M
184 SET CACOR 10 SYS(10 SET 10 W/M
185 SET CACOR 10 SYS(10 SET 10 W/M
186 SET CACOR 10 SYS(10 SET 10 W/M
187 SET CACOR 10 SYS(10 SET 10 W/M
188 SET CACOR 10 SYS(10 SET 10 W/M
189 SET CACOR 10 SYS(10 SET 10 SET 10 SET 10 W/M
189 SET CACOR 10 SYS(10 SET 10 SET 10 SET 10 W/M
189 SET CACOR 10 SYS(10 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13. SET MODE OF FINANCE OF FINANC
```

MPSDC. PRG

```
CASE counter (3 WIT "Invalid Password on attempt" *LIMIM(STR(counter))*, Try again ..., WINDOW TIREOUT I
CASE counter # 3 WIT "Invalid Password on attempt "-LIMIM(STR(counter))*, SET COLOR 10 W/N
CLEM # 0.0 SAY "Password failure entering PTMS. User rejected,", COLOR # //N
IF UPPER(mpassurd) ** passtran(password)
mpassurd - SPACE(6)
0 6,25 SAY "Please type the password."
0 6,52 SAY " COLOR N/U
       m ---Basin password validation
m ---Chact for axistence of PASSMR0.08F
m ---Chact for axistence of PASSMR0.08F
T. AUT. File: "WPS_HISC.08F" )
TO CHR(1)
UNIT "Password file not found. Program quitting..." WINDOW TIPEOUT 3
SET COME TO WAI.N.W.
                                                                                                                                                                                                                                                                        S 0.00 SAY "NPS_MISC.DBF not found. Chack User's Hanual," COLOR W*/N COLOFF ALL.
  . COLOR GR./N
. COLOR GR./N
. COLOR GR./N
                                                                                                                                                                                                                                                            Counter • 0
DO WHILE .T.
```

WAIT "NPS_MISC.DBF not found. Program quitting ..." WINDOW TIMEOUT 2 CLEAR 8 0.0 SAY "NPS.NISC.DBF fils not found. Check the User's Manual COLOR W+/N./N/W HIGE OR processor The success ANDITIVE

Will THEST OR processor The success Tree process ANDITIVE

HIGE OR processor The success Tree process Tree p USE members ORDER 1
USE activity IN B ORDER 1
SET RELATION OFF INTO members
USE curricul IN C ORDER 1
SET RELATION OFF INTO members
USE DIRECTOR IN D
USE NP=misc IN E

215 st. Procedure. Print.
215 st. Procedure. Print.
215 st. Procedure. Print.
216 st. 217 st. Called by: NPS_OPEN.PRG
218 st. Called by: NPS_OPEN.PRG
218 st. Called Upper Class to 4 if 4uil 12 mos since last_t2
220 st. CLEAR TO 24,79
221 st. CLEAR TO 24,79
222 st. CLEAR TO 24,79
223 st. CLEAR TO 24,79
224 st. CLEAR TO 24,79
225 st. CLEAR TO 24,79
226 st. CLEAR TO 24,79
227 st. CLEAR TO 24,79
228 st. CLEAR TO 24,79
229 st. CLEAR TO 24,79
220 st. CLEAR TO 24,79
220 st. CLEAR TO 24,79
221 st. Clear TO 24,79
222 st. CLEAR TO 24,79
223 st. CLEAR TO 24,79
224 st. CLEAR TO 24,79
225 st. CLEAR TO 24,79
226 st. St. St. Viss PINSS Backer PRU to 13,45 DOUBLE NOTLDAT NOCROW st. CLEAR TO 24,79
227 st. CLEAR TO 24,79
227 st. CLEAR TO 24,79
228 st. CLEAR TO 24,79
239 st. CLEAR TO 24,79
240 st. St. Viss PINSS Backer PRU to restore * satisfing_obt COLOR GR*/R
242 st. St. St. Viss PINSS Backer PRU to restore * satisfing_obt COLOR GR*/R
243 st. CLEAR TO 24,79
244 st. St. Viss PINSS Backer PRU to restore * satisfing_obt COLOR GR*/R
245 st. St. Viss PINSS Backer PRU to restore * satisfing_obt color GR*/R
255 st. St. Viss PINSS Backer PRU to restore * satisfing_obt color GR*/R
257 st. CLEAR TO 24,547
258 st. St. St. Viss PINSS Backer PRU to restore * satisfing_obt color GR*/R
258 st. St. St. Viss PINSS Backer PRU to continue ...*
259 st. St. Viss PINSS Backer PRU to continue ...*
250 st. St. Viss PINSS Backer PRU to continue ...*
251 st. CLEAR TO 24,547
252 st. St. St. Viss PINSS Backer PRU to continue ...*
253 st. EELEKS United warn_obf
253 st. EELEKS United warn_obf kbytss • "(ainiaus ">SUBSTR(L'RIM(STR(file_sizs))_1,3)*"K reg'd)."
WAIT "Insufficient disk space resains to safsty run PTARS *;
kbytes Wildow ThrEQUT 2
@ 0,0 SAY "Insufficient disk space resains to safsty run PTARS *; 199 PROCEDURE SACE_Check
199 PROCEDURE GALCANECK
199 Sace_Check
19 176 SET RELATION TO utc INTO activity ADDITIVE
177 SET RELATION TO utc INTO activity ADDITIVE
178 n ---Sava environment to vias file 2
179 CREATE VIEW relate2 FROM ENVIRONMENT
188 n ---Initialisa database variables for current workers
183 SET VIEW TO ralate3
183 SET VIEW TO ralate3
184 s ---Set up work area definitions
185 SET VIEW TO ralate3
186 no. obf - s. f. stall database files are present
187 NOSTUCKN
188 simulmentermentermentersentermenter Called by: NPS_OPEN.PRG Procedure: SPACE_CHECK Procedure: UPDATE

```
n --- Check for duplicate key in master file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              174 піппининини
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DO LAHIE T. 8 promption. O. S. W. Properties (Eac) to abort "-SPACE(S1) COLOR LI-/BG & ROL. S.AY "APPEUD, Prass (Eac) to abort "-SPACE(S1) COLOR LI-/BG m ---Enter key field values.

DO DO E-LEVA WITH exp. isolant.isunique | Fisblant. GR. NOT isonique
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FoxDoc version 2.10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (procedure in NPS_PROC_PRG)
                                                                                                                                                                                                                                                                                                                                                                                                                (procedure in NPS_PROC.PRG)
(procedure in NPS_APPE.PRG)
(procedure in NPS_PROC.PRG)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29 mProgram, NPS APPE, PRG (append record accule)
30 PRIVATE ROM, recnum, recnumofs, isedited, isblank, isunique, isdeleted
                                                                                                                                                                                                                                          (procedure in NPS_PI
(procedure in NPS_PI
(procedure in NPS_N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 54 m ---Start by adding one record.
S. choice returning to
5.5 choice of chiosing to seally a "REPEAT/UNTIL (cond)".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WAIT "DIRECTOR can only be edited" WINDOW TIMEOUT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ON KEY LABEL (1 DO hip with "Apps" (Choise - returning) in ---Add another record.

rechwads orechwads + 1

rechwads a rechwads + 1

rechwads botton.
                                                                                                                                                                                                          (procedure in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31 m --Initialize local aemory variables.
33 ROM - propertrour!
34 STORE F. TO C. Isblank Launique. Ladeleted, scrnfild 35 isedited * F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DO statline WITH lastracoraconsofs, isdeleted
  Procedure file: C: VPTARS NAPS_APPE. PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Documented 01/28/92 at 09:D0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      @ 0.50 SAY "MBLANKM "
m --- Chack for duplicate record.
                                                                                                                                                                                                                        Proce & Facts MPS_SAYI
NPS_SAYZ
NPS_SAYZ
NPS_SAYZ
                                                                                                                                                                                                        NPS_FORMA
                                                                                                                                                                Set by: MPSOC.PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IF MOT. EOF()
SKIP
END!
DO GASE
DO OPE-BAYI
CASE dibforma * 11
CASE dibforma * 22
DO OPE-BAYI
CASE dibforma * 22
CASE dibforma * 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               * CAPSLOCK(.F.)
H ---Select input form
DO CASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ENDCASE
SET COLOR TO W+/N.N/W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 m --- Set Capslock off
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DO nps_say3
ENOCASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CASE Cofarea - 1.

10 ops.foreal

CASE Cofarea - 2.

CASE Cofarea - 3.

CASE Cofarea - 3.

CASE Cofarea - 3.
                                                                                                                                                                                                        Calia
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GOTO BOTTOM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       77 CHR(7)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RETURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DO WHILE
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221 RIBERTONS
222 RIBERTONS
223 RIBERTONS
223 RIBERTONS
224 RI Procedure NPS_CHECK
225 RI Procedure NPS_CHECK
225 RI Procedure NPS_CHECK
226 RI Called by: NPS_APPE.PRG
227 RIBERTONS
228 RIBERTONS
229 PROCEDE nos check
220 RIBERTONS
230 RIBERTONS
231 Riberton
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233 SEEK sann
234 FINAL FORCE
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237 FINAL FORCE
238 FINAL FO 77 CHR (7)
WAIT "DUPLICATE key encountered. Record not saved." WINDOW TITEDUT IF (autc = '31405') .AND. (LEN(ALLTRIN(acurr_num)) < 3)
7 CHR(7)
WAIT "Error in Curriculum. Record not saved." WINDOW TIMEOUT 2
15 deleted = .T. CASE COLORDA = "2" IF (LENGALIRING majob)) (5) .OR. (EMPTY(ALLIRING mact_name))) 235 | isdeleted # .T.
238 | ENDIE
239 | ENDIE
230 | ENDIE
230 | ENDIE
231 | CASE | CASE | CASE |
231 | CASE | CASE | CASE |
232 | CASE | CASE | CASE |
233 | F. (LEN/ALIRINicasio.) | CASE |
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236 | UNIDAL TIREDT | CASE | CASE |
237 | UNIDAL TIREDT | CASE |
238 | ENDIE |
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250 | a i an aran an aran aran aran agan kurkan Called by: NPS_APPE. PRG Called by: NPS_APPE. PRG Procedure: NPS_SAY2

PROCEDURE nos_say!
e ---Using MEMBERS.DBF
SET COLOR TD M/W

262 uinbow TimeOut 2
264 EMBF
265 Edistrates = "3"
265 CASE distrates = "3"
266 Interview (EMBILE)
267 TimeOmplete or missing data, Record not saved." i
268 WAIT "Incomplete or missing data, Record not saved." i
269 WINDOW TIMEOUT 2
270 EMBER 2
271 EMBER 2
272 EMBER 2
273 EMBER 2
274 H: EDF: NPS.APPE.PRG

```
6 ROW, O SAY "EDIT: Press (Esc) to abort**5PACE(52) COLOR W/8G SET CURSOR ON "--Enter key field values."

n ---Enter key field values.

n one key will mape, lablank, launique

If expr * keynou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AtClears recall dates with new la
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HATT "DIPLICATE Curriculus. Change value to proceed."; y WINDOW; y THEOUT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Change value to proceed." WINDOW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         --- Found a duplicate record in the file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H ---Check for duplicate key in master file.
SET DELETED OFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Change value to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  H ----No duplicate key found, so leave.
SET DELETED ON
GO oldrechus
                                            CASE aditcholce • "6"

H ---Coto & record

DO dogoto WITH ROW.recnum.isstrect

DO ssyres.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1F Isblank .OR. .NOT. Isunique
Exit
                                                                                                                                                                                                                                                                                                           oldrecnus · RECNO()

*** --- Check for duplicate record.
                                                                                                                                                                                                    1F BOF ()
DO 85YEOF WITH ROW, old-ecnus
ELSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UA17 "DUPLICATE SSW. TINEOUT 2
CASE dbfares • "2"
77 CMR(7)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WAIT "BUPLICATE UIC.
TIMEOUT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CASE dbfares - 1"
77 CHR(7)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASE dbfares = "3"
77 CHR(?)
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CASE dbidwres m "3"
keynow m ecurr_nuac
ENCASE
Do WHILE .T.
                                                                                                                                                                                                                                                                CASE editchoice "E"
n ---Edit the record.
isedited * .T.
DO nps_stor
                                                                                                                                                          CASE editchoice "P"
H ---Previous record,
oldrechus « RECNO()
SKIP -1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IF NOT LASTKEY 0 . 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Obferea * 11'
DO updatered
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CASE abfares . "I"
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                                                                                                                                DO sayrec
Isedited H .F.
ENDIF
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CASE dbfares e "2"
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END 1F
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                                                                                                                                                                                                                                     DO SSYTEC
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   These lines excluded for speed on 80286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           # ROW, O SAY "EDIT/VIEW, (E)dit (F)ind (G)oto (H)ant-record
"(P)rev-record (Return) " COLOR W+86
DO getter will weditchoice,"EFG#F5**returnkey
DO ASSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DO sayline WITN ROW, "No find."
n --- Find a record.
Do nps. nots will Rou.nd-choice
If ndachoice > '0'-
old-ecnus + RECNO()
Do nps.seat will NOU
IF EDF ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25 STORE "* TO editchoice.ndxchoice
SI rectuae * RECENTO;
54 m -- Loop until (Return) is pressed.
55 DO WHILE T.
56 DO WHILE T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DO BAYTEC
SET COLOR TO We/M.N/W
IF MOT. (editonice 8 "MP")
8 ROW, O CLEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DO sayrec
isedited * .F.
EMD1F
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CASE editchoice · 'F'
                                                                                                                                                                                                                                                                                                                                                                                                                        42 CASE Obstaces = 11*
43 D0 nps.forms2
44 CASE Obstaces = 2*
45 D0 nps.forms0
44 CASE Obstaces = 3*
47 D0 nps.forec
48 CASE Obstaces = 4*
49 D0 DIRECTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SET CURSOR OFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S1 ENDCASE
```

MPS_EDIT.PRG 1 of 1

```
NPS BROW.PRG 1 of 2
```

@ routop-2,0 SAY SPACE(60) "CURRI-" " SMC/" *SPACE(7) # routop-1,0 SAY "Record SSN ----- BRANCH LAST T2- CLASS "*;

(procedure In NPS_BROW. PRG)

```
6 H. Proce & Focta | PAINT |
6 H. | AD15PLAY |
7 H. | AD15PLAY |
8 H. | CO15PLAY |
9 H. | Set by: NPSOC.PRG |
11 H. | Calla: HP |
12 H. | Calla: HP |
13 H. | Calla: HP |
14 H. | (Procedure in NPS. PROC.PRG) |
15 H. | Calla: HP |
16 H. | (Procedure in NPS. PROC.PRG) |
17 H. | (Procedure in NPS. PROC.PRG) |
18 H. | (Procedure in NPS. PROC.PRG) |
19 H. | (Procedure in NPS. PROC.PRG) |
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# roaprospt.1,0 SAY i

* PELETEVIEW, (#) ind (G) oto (M) ode (Arrows) (#gln) **,

*(Pale) (Cel) (Return) * (DLOR H+/86

# ROAL OSY (FRITH)

** OD OSY CHIN (M) COLOR H+/86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67 # 0.0 GAY "FILE." COLOR W./N
68 # 1.0 GAY "FILE." COLOR W./N
68 # 1.1 GAY "FILE. COLOR GAY.N
70 # 0.46 GAY DATE! COLOR M./N
71 # 0.48 GAY " COLOR N./N
71 # 0.48 GAY " COLOR N./N
73 # "--Loop until Greturn) is pressed
74 DO WHIE . I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WAIT "DIRECTOR can only be edited" WINDOW TIMEOUT
I REPRESENTATION DE LE REPRESENTATION DE LE REPRESENTATION DE LE PROPERTIE DE 
                                                               *: Procedure file: C: VTARS UPS_BROW.PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ON KEY LABEL 41 DO hip WITH "Dele"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n ---Exit 14 DIRECTOR.DBF aelacted
IF dbfarea = "4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rowbottom = 21
rowprompt = rowbottom + 2
akiprome = rowbottom - rowtop + 1
6010 TOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --- Initialize local variabies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                n ---Initialize constants.
hose = CHR(I)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SET COLOR TO W+/N,N/W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IF pagebaint
racnum = RECNO()
6010 recnumtop
DO paint
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 M --- Perfore BROUSE.
5 SET COLOR TO M/N,N/W
6 CLEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ROU = routo

recnus RECNO!

recnusto = recnus

2 pages pire - I.

3 ladited - F.

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6 por CASE - I.

6 por CASE - I.

8 pontax - I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CASE obfarea = "3"
paneax = 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CASE dbfarea = "2"
paneax = 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               endkey = CHR (6)
uparrow = CHR (5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RETURN
```

CASE pancia - 1
8 routoo-2,0 SAY SPACE (68) **RANK/*, SPACE (7)
8 routoo-1,0 SAY "Records SSN------ LAST NATE
FIRST NATE----- n1 RATE *)** 11strace > 1
H = -01soley heading when listing the entire page.
BT CCLOR TO MYM.W/W CASE choice = endiay pagepaint = (pancol () paneax) pancol = paneax ENDCASE | 177 | 77 CMR(7) | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 speed on 80284 These lines excluded for # ROW, 0 SAY CHRILE) - Lit record pointer ayabol DO getkey WITH choice, keystrokes DO eayline WITH rouprompt, "No find." e rouerouet, D.CLEAR CASE choice * '6' ID dopped HITH roueromet, rechus, lastrec IF rechus > 0 CASE choice = "F"

" --find a record.

DO nos_nada with rosprospt,choice

if choice > "O"

recrumal ast = RECNO!

DO nos_eset Will rosprospt

if EOF!) n --Prompt line selections.
00 GAS;
GASE choice - returniery
IF rombottom = 39 OR rombottom = 46 CASE
CASE CASE
CASE CASE
CASE CASE 0 12
SELETE
CASE CASE 0 12
SELET A CELVITY. UIC
SELET A CELVITY. UIC
SELET A CELVITY. UIC
SELET ORDER TO S
SELET ORDER TO CASE
SELET ORDER TO CASE
NADIS H ---Reposition record pointer.

DO MHILE choice & warrow-downarrow

R ROW, D SAY * *

F Choice • warrow

SKIP -1 0 0,60 SAY DATE() COLOR N/W 0 0,68 SAY " COLOR N/W SET DISPLAY TO EGA2S d rouproept, 0 CLEAR GOTO recnuelast ELSE recnuatop * RECNO()
pagepaint * .T.
ENDIF CASE ROW < rowbotton
CASE ROW < rowbotton
ROW - ROW + 1
DINERALISE
SKIP -1
ENDCASE MUMMANAMANAMANAMANAMANAMANAMANAMASES
MCLOSE DATABASES
MSET VIEW TO RELATE;
MSELECT LODG A-ca. recnustop = RECNO() pagepaint = .T. DO CASE CASE BOF () GOTO TOP CASE ROU > rowt op ROU = ROU = 1 OTHERNISE DO CASE CASE EOFO ENDCASE ENDIF

HAIT "heabers axist in UIC. Can not delete." ; UINDU TINEUIT 2 SET ORDER TO Endoorder SELECT 8.

CASE delares = 37*

SECT A

SET ORDER TO 7

SET NOTE TO 8

SET ORDER TO 8

SET ORDER TO 8

SET ORDER TO 8

SET ORDER TO 8

SELECT C

348 ENDIF

737 DO adiable WITH (routop), stiprecs 739 CASE Coferes = 2 730 DO Balles WITH (routop), stiprece 730 DO Cales = 3 732 DO cales = 3 Calle, ADISPLAY , BDISPLAY , CDISPLAY 191 RETURN 192 M. EOF. NPS_BROW.PRG If pancol # panlast 177 CASE Objects # 11" 188 Explif 189 paniast # pancol 190 pagepaint * .f. 183 ENDCASE 184 GOTO recnue CASE parcol - 3

CASE parcol - 3

Costop-2,0 SAY *Records SSM------ RECALL_1 RECALL_2 **;

*RECALL_3 RECALL_4 (procedure In NPS_BROW.PRG) (procedure in NPS_BROW.PRG) IF listres > 1

*** The state of the state o 297 PROCEDURE balanelay
298 m --mc-kluvity.chd broase display
299 PARAMETER ROLL ilstracs
200 pf listracs > 1
200 pf listracs > 1
201 m --Display hadding when listing the entire page.
302 SET COLOR TO MY/N/N 121 CASE pancol • 1 722 — LIST HERT HAterica uic,"", acronym,"", act_name 722 CASE pancol • 2 724 — LIST MEXT Hateriaca uic,"", poc # rowtop-1,0
row "PAND UIC -- CULUN CODE ... CASE pancol # 2 77 "UIC-- POC (Point of Contact)" ser color to W/N/N/U

4 rowtop.0 CLEAR TO rowbottom.79 # ---Clast the window area. SET COLOR TO W/N/W & rowtop,0 CLEAR TO rowbottom,79 534 п|пиприприприприприприприприпри 335 PROCEDURE cdisplay 336 m --- Curricul. Obf browse display 337 PARAMETER ROW.11 stracs Procedure, BOISPLAY Procedure: COISPLAY 316 m --- Display the records. 318 SET HEADING DEF 318 SET COLOR TO W/N.W/U 319 @ ROU-1,0 SAY "" 349 m --- Display the records. 350 SET HEADING OFF 351 SET COLOR TO W/N/W 352 @ ROW-1,0 SAY ** Called by: PAINT Called by: PAINT 279 DD CASE 280 CASE pencol • 1 SET HEADING ON RETURN SET HEADING ON ENDCASE 325 ENDCASE

2000

(procedure in NPS_BROU,PRG) (procedure in NPS_BROU,PRG) (procedure in NPS_BROU,PRG) κ ---Raposition record pointer when repainting current page. ROM \circ routop 353 LIST MEIT LISTERCE curr_num. ".curr_name,".dept_code." "
354 SET HEADING DN
355 SET UNN
355 M | Procedure PAINT
359 M | Procedure PAINT
359 M | Called by, MPS_BROM.PRG
350 M | Called by, MPS_BROM.PRG
351 M | Called by, MPS_BROM.PRG
352 M | Called by, MPS_BROM.PRG
353 M | Called by, MPS_BROM.PRG
354 M | Called by, MPS_BROM.PRG
355 M | Called by, MPS_BROM.PRG
356 M | Called by, MPS_BROM.PRG
357 M | Called by, MPS_BROM.PRG
358 M | Called by, MPS_BROM.PRG
359 M | Called by, MPS_BROM.PRG
350 M | Called by,

", phone_no

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D0 gorecals

# --D0 results

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AND. deaders.rec_112 ( GORONHIGNE(...1) > ),
AND. ON CHYTYGE(112) > AND. (EFFTYGE(112))
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(procedure in NPS_PROC.PRG)
(procedure in NPS_RECA.PRG)
(procedure in NPS_PROC.PRG)
                                                                                                                                                          (rscall_3 < GOMENTH(DATE(), -1)+5);
.AND. (EMPTY(recall_4)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MENU.
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procedure in NPS PROC. PRO
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15 STORE ** TO rectyps
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Procedure #11st C. VPTMSVMPS_RECA.PRC
Procedure #11st C. VPTMSVMPS_RECA.PRC

Proces & Focts RECALLS_FEMA.

From Section Recall

RECALLS RECALL
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NPS RECA.PRG

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# rouprospt-1.0 SAY i
# rouprospt-1.0 SAY i
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# ROUD SAY CHR(is) # SAT record pointer
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SET TETTHERGE OF ALSEALY(CAR).LST
A File, RECALL(CAR).LST
A Liteting of most recent Recall ((cnt)) letters, Created on (CDATE()))
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                                                                                                                                                                                                                                             (procedure in NPS_PROC.PRG)
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(procedure in NPS_PROC.PRG)
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(procedure in NPS_PROC.PRG)
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332 PRIVATE received populate, elibrace, ,
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334 ROM, routop, roubot tom, roup rompt, keyetrokes, pagesaint, ,
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REPORT FORM recalitent NEXT | TO PRINTER NOCONSOLE
REPLACE recall Lent WITH DATE()
SET TEXTRERGE ON
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ERASE &bakfile
IF FILE( '&letfile' )
RENATE &lstfile TO &bakfile
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babfile " recall"cNIv".bab"
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                                                                Litracet
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4 raturniay = CHR(13)
5 uparrow = CHR(5)
6 downarrow = CHR(24)
                                                                                                                                                                                                                                                                                                                                                                                                79 PROCEDURE goracalla
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ON ESCAPE
ENDIF
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dbfares * '1'
                                                           ON KEY # 315
SET ESCAPE OFF
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DO EDIT WITH 1sedited

IF rechusiat * RECHO!) .AND. .NOT. isedited

RESTORE SCREEN DO eayline WITH romproapt,"No find." 60 reconstant $m\to 0.0$ not resort pointer, is discline if $T_{\rm c}$ M ---Find a record. DO npa_ndxa WITM rowprompt,choice IF choice > *0* recnustant + NECHO()
DO npe_seek WITN rouprompt
IF EOF() H ---Radisplay the screen, SET COLOR TO W/N/N/D CLEAR

8 rouprospt,0 CLEAR 6010 recnustaet ELSE recnustop + RECHO() pagepaint H .T. ENDIF

6 rouprompt, 0 CLEAR
CASE choice • "6" BO depote UITH rouprompt, rechus, leafrec
IF rechus > 0 rechustop • RECHO!)
pagosint " T.

CASE choice # padn IF .NOT. EOF() GOTO rechustop SXIP etiprece GOTO BOTTOM IF EOFO

recnustop • RECND() pagepaint • .T. ENDIF

CASE choice » peup IF .NOT. BOF() GOTO recnuetop SKIP -etiprece IF BOF() GOTO TOP

recnustop • RECND() pagepaint • .T.

Procedura: RECOISPLAY

(procedure in NPS_RECA.PRG) Called by: MPS_CREC

RECALL, I RECALL, 2 **!

521 @ ROW-1,0 SAY "" 522 LIST AEXT Histrace san,"", PAOR (SUBSIR (ALLTRING ast_name) "", "") 518 M ---Oimplay the records. 519 SET HEADING OFF 520 SET COLOR TO W/N.W/W

NPS RECA. PRG

. COLOR 6+/N Instrye = "cla"

Do listope

Do classoop

Do porrot LiTH rotnase

CASE choice = "4" - OR, choice = "U"

SET COLOR TO WANA

" = --fleabers by UIC

ON KEY = 315 WAIT "Help not available" WINDOW THEOUT I Do listype " pan"

Do listype " pan"

Do pangue

Do pernet UITH retname

CASE choice " "6" . OR, choice " "A"

SI COUGN TO W/A!

SI COLOR TO W/A!

CHOICE TO W/A!

SI COLOR TO W/A!

SI SI SI ANI "Help not available" WINDOW TIPEOUT ; SET CURSOR ON DO SET THE MOLES, "NA" returnisty Do Gette, UTHIT Holice, "NA" returnisty Di Gette, UTHIT Holice, "NA" returnisty Children a. "Clas. CEP."

ON KEY = 315 UNIT "Help not available" WINDOM TIMEDUT 1 DO prorpt WITH The Poname DO IISTONE MITH FOR LAND CASE CHOICE N "C"
SET CURSON "S" OR. Choice N "C"
SET CURSON "S" ON "C"
SET CULOR TO WAYM

SET CURSON TO WAYM

CM KEY N 315 WAIT "Help not available" WINDOM TIPEOUT 1
SELECT A M --- All aembers CN KEY H 315 WAIT "Help not avallable" WINDOW TIPECUT 1 SELECT A m ==-All Activities
ON KEY = 315 WAIT "Help not available" WINDOW TIMEOUT 1
CELEGT A m ---All Curriculuse ON KEY = 315 WAIT "Help not available" WINDOW TIMEOUT 1 SELECT C mpct_pand2 = (mcntpand2/mtotpand) = 100 mpct_pand3 = (mcntpand3/mtotpand) = 100 REPORT FORM clas_cte @ 22,30 SAY "Print this report? (y/n)" CASE choice # 22" .0R. choice # "N" SET CURSOR OFF SET COLOR TO U+/N rptnase " activity"
DO printy With rptnase
CASE choice # 77", OR. choice # "R"
SET CURSOR OFF 0 0.40 SAY DATE() COLOR N/W
0 0.48 SAY - COLOR N/W
1 ---Center the serv heading.
servings - P T A R S R E P O R T S
COL - (80 - LEN'earunds) / 2
1 1,0 T0 14.79 DOUBLE COLOR GA/W DO Ilstpop
DO Proppt WITH retname
GASE choice = "5" . GR. choice = "P"
SET CURSOR OFF
SET COLOR TO M+/N 6 3, 0 SAY -6 3,40 SAY -6 2,COL SAY menuhda COLOR GR+/N 163 ијинининининининининининининининини 164 PROCEDURE report_menu 165 PRIVATE COL.menuhdg Called by: NPS_REPO. PRG Procedure: REPORT_ITEM rptname • "curricul" DO prnrpt WITH rptname ENDCASE ilsttype m "ulc" SET COLOR TO W+/N listtype = "all"

| 17. 8. 7.3 SW ** TO COR BEAVER
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| 18. 0. 4. 4 SW ** ARITE | 10. COR BEAVER
| 18. 0. 4. 4 SW ** ARITE | 10. COR BEAVER
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NPS_REPO.PRG 1 of 2

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DO MAILE merintent .AND. merint 8 10,24 SAY "Sending report to printer ..." COLOR W+/Net 8 11,24 SAY "Press (Esc) to abort" COLOR W+/Net
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DO setpro
REPORT FORM Arptname TO PRINTER NOCONSOLE
merintent " .F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Libraset
                                                                                                                                                         SET ESCAPE ON
STORE .1. TO morint morintent
ON ERROR DO princob
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Life asst
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                                                                                                                                                                                                                                                                                                                             ON ESCAPE DO prinstop
IF printtat = "Y"
H ---Escape routine
SET CURSOR OFF
                                                                                                                                                                                                                                                                                                                                                          340 MILE aprincipal 340 MILE aprincipal 341 MILE aprincipal 342 MILE 343 MI
    153 IF pros
153 E. --
154 E.T.
155 C.L.C.
155 S.T.OR
157 S.T.OR
157 S.T.OR
157 ON E.
$P$1. $P$1. $P$2. $P$3. $P$3. $P$3. $P$3. $P$3. $P$4. $P$4.
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354 PARAMETERS retrams
354 PARAMETERS retrams
350 F NOT LASTKRYI = 27 & & Lif not escape key pressed
351 DO princh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              · COLOR G+/N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CASE marrowst . Green . GRN-
SET FILTER 10 pano . GRN-
GAS marrowst . Red
SET FILTER 10 pano . RED
CASE marrowst . Vallow
SET FILTER 10 pano . YLW-
CASE marrowst . All .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Called by: NPS_REPO.PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Called by: NPS_REPO. PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             334 п. приприприприприприприприпри
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Calls, PRACHK
, PRAPROB
, PRNSTOP
, SETPRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   345 mi Report Fores: BRPTNATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 14,33 SAY "
ACTIVATE POPUP classpop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RELEASE POPUP classpop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Procedure: PAMPOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Procedure: PRWPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RELEASE POPUP panpop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DO CASE
```

Affirement arror message 16 prints LEStop printing 14 escape key pre

| 155 | H | Call ad by | MPS_UTIL.PRG | GFOCEOLE of | NPS_PROC.PRG | LIBE | H | Call a, DEACTPOP | GFOCEOLE of | NPS_PROC.PRG | LIBE | H | LIMENING | GFOCEOLE of | NPS_UTIL.PRG | LIBE | H | LIMENING | LIBE | H | LIMENING | LIBE | LIBE | H | LIMENING | LIBE | LI Procedure, PACK_POP

```
MAIT "Verification feilure, Original password reseins in effect." ; MINDOW TIMEOUT 1
        IF LASTKEY() = 27
SET CLESSON OF
WAIT "Pease-ord change aborted." WINDOW TIMEOUT 1
CLEAR
EXIT
                                                                                                                                                                                                                                                                                                                                If mnembers in everify
REPLACE passavord WITH passtran (mnembers, 6, .T.)
6 9,19 SAY "Verification excessful."
WAIT - "INFOUT is
meax = SPACE(1)

@ 7,colget + 1 GET mean COLOR .X

PEAD
                                                                                                                                                                         ENDIF

0 7.colasy + 1 SAY "."

everlfy = everlfy+memx
CLEAR GETS
            201 11.1 (19.7 AC. 19.6)

202 11.1 (19.7 AC. 19.6)

203 11.1 (19.7 C. 19.6)

204 11.1 (19.7 C. 19.6)

205 11.1 (19.7 C. 19.6)

205 11.1 (19.7 C. 19.6)

205 11.1 (19.7 C. 19.6)

207 11.1 (19.7 C. 19.6)

208 11.1 (19.7 C. 19.6)

209 21.1 (19.7 C. 1
                                                                                                                                                                                                                                                                                                                                                                                     A Procedure NPS_CPAS

A Procedure NPS_CPAS

A Called by NPS_UTIL.PRG

A Calls MP

A PASSTRAM

A CALLER MPS_PROC.PRG)

A Calls MP

A PASSTRAM

A CALLER MPS_PROC.PRG)
```

17.6 DEFINE PORUP Du FROM 3.40 TO 9,71 TITLE "Select" 7. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 7. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 7. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 7. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 8. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 8. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 8. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 8. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to eslect file(s)", 9. MESSAGE "Scroll or press highlighted letter to esle	SELECTION OF SELEC	E. 13.25 20.
98 9 1,0 10 11,79 DOLMEE COLOR G+/N 99 13,0 SAY " " COLOR G+/N 90 13,40 SAY " " COLOR G+/N 91 02,000 3,40 SAY " " COLOR G+/N 92 00 3,40 SAY " " COLOR G+/N 93 03,40 SAY " " (F) for halp" 94 05, 0 SAY "FI COLOR G+/N 95 04, 3 SAY "Altefi) for function" 95 04, 3 SAY "Altefi) for function" 96 05, 0 SAY "Altefi) for function" 97 07 0Checi II quitting the program 98 15 Dun "F. " COLOR G+/N 99 05, 0 SAY "O. Exit to utilities senu" 100 05, 0 COL SAY "O. Exit to utilities senu" 101 05, 0 COL SAY "O. Exit to utilities senu" 102 05, 0 COL SAY "O. Exit to utilities senu" 103 05, 0 COL SAY "O. Exit to utilities senu" 104 05, 0 COL SAY "O. Exit to utilities senu" 105 05, 0 COL SAY "O. Exit to utilities senu" 106 05, 0 COL SAY "O. Exit to utilities senu" 107 05, 0 COL SAY "O. Exit to utilities senu" 108 05, 0 COL SAY "O. Exit to utilities senu" 109 05, 0 COL SAY "O. Exit to utilities senu" 111 05, 0 COL SAY "O. Exit to utilities senu" 111 05, 0 COL SAY "O. Exit to utilities senu" 112 05, 0 COL SAY "O. Exit to utilities senu" 113 06, 0 COL SAY "O. Exit to utilities senu" 114 05, 0 COL SAY "O. Exit to utilities senu" 115 07, 0 COL SAY "O. Exit to utilities senu" 116 07, 0 COL SAY "O. Exit to utilities senu" 117 07, 0 COL SAY "O. Exit to utilities senu" 118 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07, 0 COL SAY "O. Exit to utilities senu" 119 07	19	PROCEDU
A A A A A A A A A A	Decumentaria De	64 CASE Choice "4" OR choice "7" 65 EXT COLOR TO H/H 77 DO FESTOR 68 ENACASE 69 ENDO 70 NE FRORB 71 III Procedure BU.PEAU 73 III Procedure BU.PEAU 74 III Procedure BU.PEAU 75 III Procedure BU.PEAU 76 III Procedure BU.PEAU 77 III Procedure BU.PEAU 78 III PROCEDURE BU.PEAU 79 PROCEDURE BU.PEAU 80 PRIVATE COL. NOW BY A C. W. P. D. E. N. U. 81 DOS "** P. T. A R. S. B. A C. W. P. D. E. N. U. 82 G. O.60 SAY DATE() COLOR N/W 83 G. O.60 SAY DATE() COLOR N/W 84 G. O.60 SAY DATE() COLOR N/W 85 G. O.60 SAY DATE() COLOR N/W 87 ST COLOR TO W/W WINNING

47 | LIST FILES (Grocadus in Mes. 1970)
48 | Charles of the Control of the Contro 462 PROCEDURE List_files
463 DEFINE PORT | 151 Lites FROM 6.49 TO 9.64 TITLE "Salect" |
464 MESSAGE "Scroll or press highlighted letter to salect file(s)",
465 CGLOR W/PG List_files FROM 6.49 List_files
465 DEFINE BAR 10F List_files PROMPT "KALI files
465 DEFINE BAR 10F List_files PROMPT "KALI files
468 DEFINE BAR 10F List_files PROMPT "KALI files
469 DEFINE BAR 10F List_files PROMPT "KALI files
469 DEFINE BAR 10F List_files
469 DEFINE BAR 10F List_files
469 DEFINE BAR 20F List_files
460 DEFINE BAR 20F List_files (procedure in NPS_PROC.PRG) (procedure in NPS_BU.PRG) (procedure in NPS_PROC.PRG) (procedure in MPS_BU.PRG) CASE list disk o "F" 0 15.0 CLEAR TO 23.79 0 15.0 SAY "Insert floppy disk into the A: drive." 0 0.40 SAY DATE() COLOR N/U 0 0.48 SAY " COLOR N/U DIRECTORY LIKE M.H 0 0,60 SAY DATE() COLOR N/H 0 0.40 SAY DATE () COLOR N/W 0 0.48 SAY " COLOR N/W DIRECTORY 0 0,60 SAY DATE() COLOR N/W SE moromot . "Database files" 00 CASE Procedure: LIST_SELECT Called by: LIST_SELECT Calle, DEACTPOP Procedure: LIST_FILES Called by: NPS_BU.PRG ENDCASE
ASE mprompt o "All filse
DO CASE
CASE list_disk = "N" Caller DEACTPOP 449 BUCASE 470 RELEASE POPUP 11 st_select 471 SET CURSOR OW 472 RETURN CASE IIst_disk . "N" RECTORY ON A. DO CASE 503 504 505 505 506 508 508 510 511 511 511 512 508 513 508

RETURN

	612	凝
528 LM1T 529 EHDCASE	7	Hinnum Hi
3 4	919	HI Procedure: REST_SELECT
S32 SET CURSOR ON	419	mi Called by: RESTOR (procedure
S. 4. N. DATE OF STREET	619	NI Cella, DEACTPOP (procedure
536 ml Procedure: FIT	621	法国法国 不名 医性电流 化电压 医 医 医 医 医 医 医 医 医 医 医 医 医 医 医 医 医 医 医
	623	PROCEDURE rest_eslect
539 MI Calls: DEACTPOP (procedure in NPS_PROC.PRG)	\$ \$2	DEFINE POPUP rest_select FROM 8,56 TO 11,48 TIT
S41 at 12 menengang menenggang menenggang menenggang menenggang menenggang menenggang menenggang men	626	MESSAGE "Scroll or press highlighted letter COLOR W+/BG,U+/BG,B/BG,B/BG,BG+/N,W+/R,GR+/B
PROCE	628	DEFINE BAR 1 OF rest_select PROMPT "KHard disk DEFINE BAR 2 OF rest_select PROMPT "KFloopy'di
545 RESSAGE "Scroll to select [drive type]) [distatta type]"	S.	ON SELECTION POPUP rest_select DO deactpop
546 COLOR W+/BG,W+/BG,B/BG,B/BG,W-W-/R 547 DEFINE BAR 1 OF 4mt PROMPT "36OK> 36OK"	77,	##prompt = " - COLOR 6+/N
548 DEFINE BAR 2 OF FAX PROVPT "1.2M> 360K"	633	4 12.0 CLEAR TO 24.79
549 DEFINE BAR 3 OF 4mt PROMPT "1.2M> 1.2M" 550 DN SELECTION POPUP 4mt DO deactpop	635	ACTIVATE PUPUP rest_select SET CURSOR OFF
SSi mprompt " "	979	DO CASE
SSZ @ 11,33 SAY " COLOR G+/N	2 9	CASE aprompt = "Mard disk '
SS4 DO CASE	619	DO rest_pop
555 CASE moromot = "360K> 360K"	\$ 3	CASE aprompt = "Floppy disk" rest disk = "F"
557 @ 15,0 SAY "Insert floopy disk into the A. drive."	645	DO rest_pop
558 WAIT 559 CLEAR	7 7	EMBCASE RELEASE POPUP rest_ealect
S60 RUN FORMAT AL	645	SET CURSOR ON
561 LASE mprompt " 1.27 -> 360K 562 0 15.0 CLEAR TO 24.79	::	PQ. I UPON H MANAMANANANANANANANANANANANANANANANANAN
563 @ 15.0 SAY "Insert floopy disk into the Ai drive."	648	M A A A A A A A A A A A A A A A A A A A
Ses CLEAR	92	: :
S66 RUN FORMT A. 74	651	mi Called by: REST_SELECT (procedure
567 CASE moromot " 1.2M> 1.2M" 568	651	mi Calls: DEACTPOP
569 @ 15.0 SAY "Insert Floppy disk into the A: drive."	459	77
571 CLEAR	95	MI INPS_OPEN. PRG
- 5	657	
574 RELEASE POPUP (at	629	PROCEDURE rest_pop
575 RETURN 576 и јантивативаниваниваниваниваниваниваниваниваниван	3 3	PRIVATE origi, origida, buf DEFINE POPUP rest_pop FROM 6.56 TO 12,67 TITLE
T 7	799	MESSAGE "Scroll or press highlighted letter
579 mi Procedura: RESIUM	;;	CCLOR W/JMC,W/JMC,W/BC,W/MC,WC,WC/N,W/K/GK//B DEFINE BAR 1 OF rest_bop PROTPT "\ <a11< td=""></a11<>
S80 mi Called by: MPS_BU.PRG	999	DEFINE BAR 2 OF rest, pop PROTPT "\Cheepere"
S82 MI Calls, GETKEY (procedure in NPS_PROC.PRG)	667	DEFINE BAR 4 OF rest_pop PROTET "ACKLINITY"
583 # i REST_SELECT (procedure in NPS_BU.PRG) 584 m i	899	DEFINE BAR 5 OF rest_pop PROMPT "\CDirector " ON SELECTION POPUP rest now DO deactors
585 п/нивановинивно патананивния виливния винивния винивнивния винивнивния винивнивния винивнивния винивнивния винивнивния винивнивния винивнивния винивнивния винивния винивнивния винивнивния винивнивния винивнивния винивнивния винивнивни винивни винивнивни винивнивни винивни вин	670	aproapt =
S86 PROCEDURE RESTOR 587 mRastoras backup database #ile(s)	671	671 @ 11,33 SAY " " COLOR G+/N 672 SET CURSOR OFF
588 choice = "w"	673	SET COLOR TO W./N.W/W
590 @ 12.0 CLEAR TO 24.79	675	ACTIVATE POPUP rest_pop
591 77 CHR(7) 592 @ 14, 2 TO 20,77 COLOR W+/RB	\$ 7.	DO CASE CASE moromot = "All "
593 @ 15, 3 SAY * Restoring backup(s) replaces current database file data. *	678	DO CASE
594 "Be sure that " COLOR W+/RB	680	orief "neneers.Dar"
595 @ 15.25 SAY "repiaces" COLOR Rv/RB 596 @ 16. 3 SAY " the backup(s) that you are restoring is/are the backup(s) "		orign = "HEMBERS.CDX" but = "HEM But DBF"
1) (0		DO do rest hard Will origf, orign, buf
597 "that you want" CULUM W+/RB 598 @ 17, 3 SAY 1 or should use. If unsure, use the menu option "List 1+,		origh = "ACTIVITY.DBF" orign = "ACTIVITY.CDX"
599 (4) las" to view the 1 COLOR WHYRB ACOLOR 18 T CAY - database file creation dates before prespecting Basis. ".		Do do seek hard bills print but
601 "the Halp avail. " COLOR Liv/RB "		oriof = "CURRICUL.DBF"
602 @ 19, 3 SAY abls for restoring and backing up by pressing (F1).		orign = "CURRICUL, CDX" but = "CUR_BU_DBF"
603 @ 19,52 SAY "FI" COLOR GR+/RB		DO do_rest_hard WITH origit.orign.buf
605 @ 22.12 AT Are you sure you want to restors backup (s) now 7 (y/n)" ; AAA CON DO 14.14		oys unity = DiRECTOR.CDX" & Gummy name
607 DO gatter WITN choice, "YN"		but = "DIR_BU.DBF"
609 If choics " "Y"		Du do_rest_hard WITM origf.orign, but CASE rest_disk = "F"
610 DO rast_salact	697	
oli Evilir	2	

```
| 15.0 LM (1982, 1987) | 15.0 LM (1982, 1982, 1982) | 15.0 LM (1982, 1982, 1982, 1982) | 15.0 LM (1982, 1982, 1982) | 15.0 LM (1982, 1982, 1982, 1982, 1982, 1982) | 15.0 LM (1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982, 1982
```

```
# 15.0 CLEAR TO 23.79
# 15.0 SAY | Floppe videt backup ") + bufile + (" does not exiet.)
# 17.0 SAY | Floppe videt backup ") + bufile + (" does not exiet.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WAIT "Restoration felled." WINDOW TIMEOUT 2
IF FILE( tempfile)
ERASE Etempfile
                                                                                                                                                                                                                                                                                                                                                                                        # ---Check If restoretion is OK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ERASE Borigilla
RENATE Blampilla TO Sorigilla
ERASE Borignda
        | 6.00 | 00 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10 | 00 | 10
6 15.0 CLEAR TO 23.79
6 15.0 SAY IMAND disk backup 'l • bufile • l' dose not exist.]
WAIT -- WINDOW TIPEOUT 2
EADIF
RELURY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENDIF

If (1 istillack)

If (1 istillack)

7 CHR (7)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (procedure in NPS_BU, PRG)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           n ---Chack if restoration is DK
istilate F.
If FILE( tempile )
USE ktempile )
GGTO BOTTOOM FROM CHISINEL and backup must match
istilate in (rcd_ont From crisinel and backup must match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     840 (tempfile " "temp.dbf"
841 | FILE (tempfile )
842 | EASE Etempfile |
843 | ENDIF | ENDIF |
844 (LOSE | ENDIF | ENDIF |
845 | IFF | ELE | Davile |
846 | | " -- Count number of records in backup file |
847 | USE & & bufile |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WAIT "Restoration failed." WINDOW TIMEOUT 2
IF FILE: tempfile )
ERASE ttempfile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mbo m. F. m. --Delate old temporary file if it emists itempfile "temp.dh" if FILE( tempfile)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BSS PROCEDIRE do_rest_flop
BSS PRANKEIRS origitie, origida, bufile
BSS PRINKIE rcd_cnt.isfileok.tempfile
BSB mbw = .F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRESENTANTE SERVICE SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORTCE DBF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ERASE torigitle
REWARE trampfile TO torigitle
ERASE torigndx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Uses: ETEMPFILE.DBF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Procedure: DO_REST_FLOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Celled by: REST_POP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SET TALK ON
COPY TO Etempfile
SET TALK OFF
WAIT ** TIMEOUT I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RETURN
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(procedure in NPS_PACK.PRG)
9 16, 2 TO 21,77 CQLOR U+/RB
17, 3 SAY " howe than 101 of the database consists of records "+;
"axised for deletion." CQLOR U+/RB
8 18, 3 SAY " The performance of the database will improve if these "+
                                                                                                                                                                                                    "records are re" COLOR W+/RB 6 19, 3 SAY" soved. Be aware that packing the database persanently "
                                                                                                                                                                                                                                                                                                                                                                             kbytas = "(ainieus **5085TR(LRIN(STR(req_space)),1,3)*K req'(d)."
WAIT "insufficient disk space "*kbytes" Database peck aborted." j
WINGUTTREOUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Called by: WPS_PACK. PRG

Calla: DOPACK

Uses: &TEMPFILE. DBF**

CARDAIGNEET CARDEN COCCASUME IN NPS_PACK. PRG)
                                                                                                    FoxDoc version 2.10 нини ини ини ини ини ини ини
                                                                                                                                                                                                                                                    8 23.18 SAY "Bo you want to pack the database now? (y/n)" COLOR W+/N DO gettery UITM choice, "YN*-returniery IF choice, "Y" if F choice, "Y" if Education (PLUS)
                                                                                                                                                                                                                                                                                                                                                                                                                      (procedure in NPS_UTIL.PRG)
(procedure in NPS_UTIL.PRG)
(procedure in NPS_UTIL.PRG)
                                                                     (procedure in NPS_PROC.PRG) (procedure in NPS_PACK.PRG)
                                                                                                                                                                                                                                                                                                                                  n ---Chack for sufficient disk space to pack and sort databases
IF pack_file "nEmbERS.DBF"
                                                                                                                                                                                                                      Tracoves records COLOR 4+/R8

8 19-48 5AT "servantil" COLOR R+/R8

8 20, 3 5AY "servantil" colod R+/R8

" COLOR 4+/R8
" COLOR 4+/R8
                                                                                                                                                                                                                                                                                                                                               USE back_fill
req_space = Jm(HEADER() + ((RECCOLNT()+1) MRECSIZE()))
IF DISKSPACE() < req_space
                                                                                                                                                                                                                                                                                                                                                                                                                                         Procedure file: C: VTARS NAPS_PACK.PRG
                                            Set by: PACK_CHECK
: PACK_POP
: UARNING
                           Procs & Fnets: PACK , DOPACK
                      .............
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250 FIRE PORT ULCE FROM 1.0 TO 4.17 TITLE FUNCTION*
251 PROCEDER FULCE FROM 1.0 TO 4.17 TITLE FUNCTION*
252 DEFINE PORT ULCE FROM 1.0 TO 4.17 TITLE FUNCTION*
253 MESSAGE "Scroll or press highlighted letter to select function"
254 COLOM MUSS.ULFBS.1986.985.867/M. MUR. GR-86
255 DEFINE BAR 1 OF funce PROPPT "Victa and FR 2
255 DEFINE BAR 2 OF funce PROPPT "Victa and FR 2
257 DEFINE BAR 3 OF funce PROPPT "Victa and FR 2
259 DEFINE BAR 4 OF funce PROPPT "Victa and FR 2
259 DEFINE BAR 4 OF funce PROPPT "Victa and FR 2
250 DEFINE BAR 3 OF funce BO BAT 3 IN PRA. Proc.
260 WA SELECTION BAR 3 OF funce BO BAT 3 IN PRA. Proc.
261 DA SELECTION BAR 3 OF funce BO BAT 3 IN PRA. Proc.
263 MR SLECTION BAR 4 OF funce BO BAT 4 IN PRA. Proc.
264 MISSELECTION BAR 6 OF funce BO BAT 4 IN PRA. Proc.
265 MR SLECTION BAR 6 OF funce BO BAT 4 IN PRA. Proc.
266 MR SLECTION BAR 6 OF funce BO BAT 4 IN PRA. Proc.
267 MR SLECTION BAR 6 OF funce BO BAT 4 IN PRA. Proc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 1.14 SAY "SYSTEM ENVIRONMENT (cont.d).
1. 9 SAY "Establishes amery vivialiables." SSS (2)» Kbytee.
9. 9 SAY "Resaining DOS esservy." «LTRINCENSIR(MEMORY!))." Kbytee.
9. 9 SAY Total diak "SSS (5)» "Estass." "SSS (2020).
9. 9 SAY "Diak" SSS (5)» "Goode reasining." «LTRINCENCINSESPACE())»
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. 5 SAY "WESDE PATIENT TRACKING AND RECALL SYSTEM (PTARS)"

1. 7 SAY "Created by LCOR Timothy P. Steals, NSC, USN"

1. 9 SAY "Mayel Postgraduate School, Honterey, CA"

1. 2. 2 SAY "Mayel Postgraduate School, Honterey, CA"

1. 2. 2 SAY "Mayery, 1992"

1. 2. 2 SAY "Mayery, 1992"

1. 2. 2 SAY "Conn.

1. 1. 1. 4 SAY "Conn.

1. 1. 1. 5 SAY "D. COLOR GR./RB

1. 1. 2 SAY "D. COLOR GR./RB

1. 1. 2 SAY "D. COLOR GR./RB

1. 1. 2 SAY "D. COLOR GR./RB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (procedure in NPS_PROC.PRG)
(procedure in NPS_PROC.PRG)
(procedure in NPS_PROC.PRG)
(procedure in NPS_PROC.PRG)
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3.14 SAY "EMUIRONEENT" **SUBSTRIDS().6.4)
4.14 SAY "Files in CDP*1G. SYS, **SYS(2010)
5.14 SAY "Current directory! **SYS(S)*SYS(2003)
7.14 SAY "Foccessor! **SYS(S)*SYS(2004)
8.14 SAY "Uldeo daapfur; **SYS(2004)
                  e II.14 SAY "(Done)
II.15 SAY "D" CQLOR GR-/RB
e II.38 SAY "N" CQLOR GR-/RB
D0 setter HIM choice, keyetrokes
If choice = "D"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             # 11.14 SAY *(Done)
# 11.15 SAY *D COLOR GR+/RB
# 11.38 SAY *N * COLOR GR+/RB
D0 setkey HITM choice, keyakrokee
If choice * *D*
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                                                                                                                                                                                                                                                                               In NPS_RECA.PRG)
In NPS_RECA.PRG)
In NPS_RECA.PRG)
In NPS_UTIL_PRG)
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(procedure in NPSDC.PRG)
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(procedure in NPS_PROC.PRG)
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(procedure 1
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ENDCASE
_DIARYDATE-GONONTH (_DIARYDATE,-1)
CASE 1= 30
_DIARYDATE-GONONTH (_DIARYDATE,-12)
CASE 1= 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                NPS_EDIT_PRG
NPS_EDIT_PRG
NPS_BROW_PRG
NPS_RECA_PRG
NPS_REPQ_PRG
NPS_UTIL_PRG
NPS_BU_PRG
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SET TOPIC TO view_recalls
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CASE hiptopic * "Edir"
SET TOPIC TO edit_recalla
HELP
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SET TOPIC TO backup_utila
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DIRECTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . EDIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Other Files: NPS_HLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                153 HELP
154 CASE histopic "Pass"
155 SET TOPIC TO password
155 HELP
157 CASE histopic "Butt"
159 HELP
159 HELP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CASE hiptopic . "Func"
SET TOPIC TO function.
HELP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CASE hiptopic . "Util"
SET TOPIC TO utilities
HELP
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SET TOPIC TO DIRECTOR
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SET TOPIC TO recalle
HELP
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SET TOPIC TO APPEND
HELP
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SET TOPIC TO EDIT
HELP
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SET TOPIC TO DELETE
HELP
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161 SET TOPIC TO HELP
162 HELP
                                                                                                                                                                                                                                                                                                                                           Procedure: HLP
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SET TOPIC TO eain
HELP
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SET TOPIC TO REPORT
HELP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 SET HELP ON 121 SET HELP ON 122 SET HELP 10 not. In 122 SET TOPIC TO not. In 122 SET TOPIC TO not. In 122 CASE IN 122 SET TOPIC TO APPEND 123 SET TOPIC TO APPEND 129 ARE PROPERED TO SET TOPIC TO APPEND 131 SET TOPIC TO APPEND 132 HELP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19 PROCEDURE NIP
20 PARAMETER NIPtopic
                                                                                                                                                                                                                      RELEASE WINDOW CAL
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RETURN
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(procedure in NPS_PROC.PRG)
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74 PAGE FRONES (T1) (*PG-MO) (Each" 1.7)
75 TITLE "Calandar" (20.08 , "MA.GR-MU
75 ACTIVATE WINDOW calandar IN cal
77 ACTIVATE WINDOW calandar IN cal
78 FOO'E WINDOW calandar IN cal
79 DO WHILE (T. ")
79 DO WHILE (T. ")
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                                                                   M. Procedure files C. VPTARS MPS_PROC.PRG
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_DIARYDATE-DATE()
CASE 1-3 tt
_DIARYDATE-GONCHIH(_DIARYDATE,1)
CASE 1-18
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NPS_FORMA1
NPS_FORMA2
NPS_FORMB
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NPS PROC. PRG

RETURN	352 CASE moroupt * "EGA43"
18. 一种 医克勒氏试验检检查检查检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检验检	354 recount to PECNO()
Frocedure: BARI	355 SET DISPLAY TO EGA43 356 rowbottom = 39
(procedure in NPS_PROC.PRG)	357 CASE mpromot * **UCA25**
et Cails: HLP (procedure in NPS_PROC.PRG)	359 77 CHR (7)
**	361
PROCEDURE bard	111
DEACTIVATE POPUP funce	
RETURN Bereiseren bereiseren bereiseren bereiseren bereiseren bereiseren bereiseren bereiser bereiser bereiser bereiser	366
	367
(procedure in NPS_PROC.PRG)	370 77 CMR(7) Sorry, UGA video adapter required. WINDOW TIPEOUT 2
(procedure in NPS_PROC.PRG)	RETURN
医红斑	374
PROCEDURE bar2	375 rechuetop m RECNO()
DEACTIVATE POPUP funcs	
NEAL THE RESIDENCE OF THE PERSON OF THE PERS	378
	98
	382 rouprompt a roubottom v z 382 superce a roubottom - routop + 1
Cails: POPTRIS.PRG	385 ** Procedure: DBF_8U
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Procedure: 8AR4	394 m.) Uses, GTEMPILE, DBF
. Cailed by: FUNC_LIST (procedure in NPS_PROC.PRG)	396 ml . 684FILE. DBF
Calls, ABOUT (procedure in NPS_PROC.PRG)	396 и јеними иними иниминими иниминими иниминими
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PROCEDURE Dark DO about	401 PANATELENS NOW, OF 18118, But 118, 41000 y 402 PRIVATE red_cnt, 1841180k
DEACTIVATE POPUP funcs RETURN	403 tempfile m lamp.dbf
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Procedure, VIEWBROW	406 FEG.CRT 9 PELLOUNI ()
Called by: NPS_BROW. PRG	409 m Delete old temporary file if it exists
I NPS_CREC (procedure in NFS_RECA.PRG)	410 IF FILE(tempfilm) 411 ERASE ttempfilm
Calls, DEACTPOP (procedure in NPS_PROC.PRG)	412 ENDIF 413 IF FILE(bufile)
я и и и и и пробрамента при	414
nChange screen display mode	416 ENDIF 417 ENDIF
Test for EGA or VGA to do View mode	418 8 ROW.O SAY IBacking up "3 + origills + [" to "1 + bufils + 1"]
F ! ("EGA" & SYS(2006) .OR. "UGA" & SYS(2006))	419 @ ROU41.0 SAY "Continuing"
WAIT "Sorry, (N)ode requires EGA/VGA video adapter." WINDOW TIREOUT	2
RETURN (**)	
FINE POPUP mode FROM rouprompt - 7.35 TO rouprompt - 2.41;	424
RESSAGE "Scroll or press highlighted letter to select a view mode"; COLOR U+/86.W+/86.W-/86.B/86.B6.N.W+/R.GR-/86	", 425 istimok o .F.
FINE BAR 1 OF mode PROTPT "VEGA25"	427
FINE BAR 2 UF mode FRUTPI "EGM (43"	429
DEFINE BAR 4 OF mode PROMPT "VGA VSO"	430
Morroupt's ""	412 USE
ACTIVATE POPUP gode DO CASE	433 ENDIF 434 iF (iséileok)
CASE moromot . "EGAZS" Cifae	
recountop * RECNO()	
SET DISPLAY TO EGA25 rowbottom * 21	436 IF FiLE(butlie) 439 ERASE &butlie
	T 9° C JOO JOOD SON

NAME AND DESCRIPTION OF SERVICE SERVICES.

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(procedure in NPS_PROC.PRG)
ERROR :3 digit Curriculus Number required."
                Isblank * (" * TRIM( scurr_numc ))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Celled by: NPS_FORMA2
, NPS_APPE.PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Called by, NPS_APPE.PRG
                                                                                  Procedure: MPS_FORTA1
                          expr " acurr_nuac
| teunique " .T.
ENDCASE
                                                                                                                                          PROCEDURE nps_formal
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SET COLOR 10 .H/U

4 4.4 GET match PICTURE ****
'VALIDIS' - (LEN'ALL'IRIN(maich))) ERROR **UIC required. Use 5 **;

"Characters."
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18unique * .F.
100 CASE
CASE Goldrea * .1.

$ 15 COLOR TO .N/U

$ 3.16 GET assn PICTURE *999-99-9999* ;
VALID(11 * (LEN(ALLTRIN(assn)))) ERROR *Valid SSN required.*
                                                                                                                                                                                                                                                                                                                                                                                               CASE dofures = "1"

@ ROU, OLE FA

@ ROU, O SAY "Enter Curriculus 8" GET scurr_nusc PICTURE "999"
                                                              SET COLOR TO WAYNING
DO CASE
DO CASE
DO CASE
DO CASE
CASE DAGACACA
SASA SAFEE(1)

REOL. O SAY "Enter San" GET mason PICTURE "999-99-9999"
                                                                                                                                                                                       GASE Geliares = "2"

@ ROU.O CLERR

auto = 5PACE(5)

@ ROU. O SAY "Enter UIC" GET auich PICTURE "0!"
                                                                                                                                                                                                                                                                SEEK expr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASE deferes = "3"

SET COLON 10 ,N/W

8 4 4 GET secur_nuec PICTURE "999" ;

VALID(3 * (LEN/ALLTRIN(secur_nuec)))) ;
                                                                                                                                                                                                                                                                                                                                                            if " <> expr = TRIN( mulcb )

IF " <> expr | 64 | 14 Expr not nul

SEEK expr
                                                                                                                                                                                                                                                                                                                                                                                                                                               SEEK expr & Life Expr not nul
SEEK expr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       isblank = (" = IRIN( auicb ))
expr = auicb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (sblank = (" = TRIM( assn ))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PROCEDURE nps_keys
PARANETER expr.isblank.isunique
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Called by: NPS_APPE.PRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Procedure: NPS_KEYS
                                                                                                                                                   expr = TRIM( mesn )
IF "" () expr
SEEK expr
          PROCEDURE nps_seek
4 PARAINETER ROW
5 PRIVATE expr
5 1F ndxorder = "0"
7 RETURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENDCASE
                                                        ENDIF
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	(procedure in MFS_PROC.PRG) (procedure in MFS_PROC.PRG) (procedure in MFS_PROC.PRG) (procedure in MFS_PROC.PRG)	овен импримента вини вини вини и (Procedure) (Procedure 10 MPS_PROC. PRO) вини вини вини вини вини вини вини вин	**************************************
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Called by: NPS_SAYS	(procedure in NPS_PROC.PRG)	RETURN HIMMHHH	
COCON TO NAME OF THE STATE OF T		1150 ml Procedure: MPS_CSTO 1151 ml	1237 6 12,69 SAY 8 1238 6 12,69 SAY 8 1239 6 12,48 GET 8 1240 ERROR "14
1007 0 4.15 GET activity. Act. name 1008 0 7.4 GET activity. Act onys 1008 0 7.20 GET activity. Accompa 1009 GET RESTINATION OF THE STATE OF THE		PROCEDURE nos.cato *	
Procedure: NPS_CSAY Celled by: NPS_SAYS	(procedure in NPS, PROC. PRG)	1161 STORE curricul.phone_no TO aphone_no 1162 NETURN 1163 интилизивания на пределативника предоставления предо	1248 ENDCASE 1249 RETURN 1250 ж. нининин 1251 ж. 1 1252 ж. 1
10/8 PROCEDURE np. cs.y. 1080 wuaing CURRICUL DBF 1081 SET COLOR TO N/W 1082 8 4, 4 GET curricul.curr_num		PRG	1254 H C4 1255 H 1255 H
# 4.23 GET curricul.curr.name # 7.9 GET curricul.dept.code # 7.23 GET curricul.phone_no CLEAR GETS		117	1258 HUsing ACTIV 1250 G 4,15 GET BACK, 1261 VALID (NOT ET 1262 ERROR "ACTIVE 1263 ACTIVE STATES
Procedure: NPS_STOR Cailed by: NPS_APPE.PRG		1174 DO CARE DO GARGA = 1.1 1178 DO GARGA = 2.1 1181 CASE DO FARRA = 2.1 1181 CASE DO FARRA = 3.1 1181 CASE DO FARRA = 3.1	1264 @ 7, 20 GF apoc 1265 VALID (NOT EN 1266 ERROR "Point 1267 RETURN
Call 8: NPS_ASTO : NPS_BSTO : NPS_CSTO : NPS_CSTO	(procedure in NPS, PROC. PRC) (procedure in NPS, PROC. PRC) (procedure in NPS, PROC. PRC)	DCASE	
PROCEDURE npa_ator DO CASE	医苯基苯基苯苯基 医成状 医苯基基 医水液性 医苯基氏 医苯基氏 医苯基氏 医苯基氏 医苯基氏 医苯基氏 医苯基氏 医苯基氏		1275 einennennennen 1275 einennennennen 1276 PROCEDURE npe_cq
1102 CASE ables = "1" 1103 Do mos.sico 1104 CASE delares = "2" 1106 CASE delares = "2" 1106 CASE delares = "3" 1107 Do mos.cito		P AND P AND CURC	1277 ebing CURRI 1278 d 4,23 GET acurr 1279 VALID (NOT ET 1280 ERROR "Curric 1281 d 7, 9 GET achor 1282 d 7,23 GET achor 1283 GEAD
ининининин PS_ASTO PS_STOR	(procedure in MPS_PROC.PRG)	1197 PROCEDURE now aget 1198 w =Using MENBERS, DBF 1199 SET COLON MAIN 1200 SET COLON MAIN 1201 VALID NOW TEPT (ALLER MG albat, name)) 1 1202 EPROR "Last name required." FMETION "A"	
	energenergenergenergenergenergenergener	1204 - VALID (NOT EMPTY(ALLTRING after convenience) 1205 - EGROR "First nase required" FUNCTION "A" 1206 - S./5 GET main PICTURE "I" FUNCTION "A" 1207 - 7.13 GET main, as a PICTURE "I" FUNCTION "A" 1208 - VALID (NOT EMPTY(ALLTRING mrank_rate)))	
1121 STONE Last.name 10 misst.name 1122 STONE mist.name 10 misst.name 1123 STONE mist.name 10 mai rate.name 1125 STONE mist.name 10 marat.rate 1125 STONE branch 10 marat.rate 126 STONE last.tz 10 misst.tz		1209 (RROR Tann or rate required." 1210 (RROR Tannor Performe) 1211 (ERROR Sarvice Branch required." Function "A" 1212 (P. 728 GET alaat, E. 2 Pictor E. D' VALID (MOT EMPTY (alaat, £2?) MMD. 1 1213 (alaat, £2 c Official) 1214 (ERROR Tanio Laat, £2 date required."	
STORE tasa. 10 mclaaa. STORE uic. 10 muic. STORE curr.num. 10 mcur.num. STORE sac. 10 msec.		1215 @ 7.76 tel mclass PICLUE -9' MANEE 1:4 VALIDUNDI EMPTY(sclass) 1 1216 @ 9.15 GET meano PICTURE "@!" VALID(val.pano(smonno) 1 1217 @ 9.15 GET meano PICTURE "@!" VALID(val.pano(smonno) 1 1219 @ 12.10 GET mair C PICTURE "@!" VALID(val.uic(smic)) 1 129 @ 12.10 GET mair C PICTURE "@!" VALID(val.uic(smic)) 1 1220 ERROR "UIC required. Append new UIC to ACTIVITY.DBF 1# W/A."	
	(procedure in NPS_PROC. PRG)	1221 REMO 1223 RETURN 1224 ENDIF 1226 ENDIF 1226 CASE MAIC <> "31405"	1308 at Procedur 1309 at Procedur 1310 at Called b
1139 PROCEDURE nos_bsto 1140 PROCEDURE nos_bsto 1144 mLinitis ACTIVITY.DBF 1142 mInitislize amenars with field 1143 STORE activity.uic	eld contents. To autob	1229 @ 12.16 CECR TO 13.78 1228 @ 12.30 SAY "Department Code "-SPACE (28) COLOR U/N,N/H 1229 @ 13.30 SAY "Leave blank 14 NA)" COLOR RB·/N 1230 @ 12,46 GET mamc PICTURE "NaNY"	
		T 7" 3 000 0000 00M	

икальний применти применти применти применти применти применти простер! anc COLOR N/U
anc COLOR N/U
scurrous PITURE "999" VALID(val_curr(mcur_num 11 i
f NPS student, Curficulus Number resulred." 医多种 计记录器 医非常性 医阿拉耳氏征 医阿拉耳氏征 医阿拉耳氏征 医阿拉耳氏征 医阿拉耳氏试验 医阿拉耳氏试验 医阿拉耳氏试验 医克耳氏试验检尿道 医克耳氏 医水流 医水流 医克耳氏 医克里氏征 医克里氏 医克里氏 医克里氏 医克里氏 医克里氏 医皮肤 医皮肤 医皮肤 (procedure in NPS_PROC.PRG) (procedure in NPS_PROC. PRG) mesic PICTURE "NAMM"
"(Leave blank 1f unknown)" COLOR RB+/N ace only if there is an available record. PICTURE "01" ; ENPTY(ALTRING aact_ness)11 ; vity ness required." wr.name i EppY(ALIRIN(mcurr_name 1)1 ; iculum name required. pt.code PICTURE "el" one_no PICTURE "BI" EMPTY (ALLTRING mpoc 3)1 , it of Contact required." .248 TO 13.78

Y "NFS Student"

Y "Curriculus Number " DV. MPS_APPE.PRG ALLE: MPS_AREP : MPS_BREP : NPS_CREP by: NPS_GETS by MPS_6ETS LEGE MPS_REPL DV: NPS_REPL T308_BGET TAPS_CGET WE OF NPS AREP IVITY. DBF RICUL. DOF BERS. DBF W'N'N/

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n ASCII value
e 4, Convert it back into an ASCII character
e 4, Convert it back into an ASCII character
e 4, Convert it back into an ASCII character
e 4, Convert it back into and ASCII character is then used as t
n---The ASCII value of this encrypted character is then used as t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H---offset for the next character. In this way, the offset value H--changes for each character, saking it harder to decrypt, offset a ASC(ork_char)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             m--Datamena offset value of first character
offset m SC(pass.str
m--Note first character is skipped because it is only the "offset
m character" for the first character of the actual string
for is 10 mored_ingh
wit.char = SUS(R(pass.str.i.1)
IF ASC(umt_char) <= 0.05(set
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1515 ON KEY = 315
1516 A. III.
1517 A. II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The from Input atring 15.37 cm. "L.Char = SUBSTRient atring.1,1)
5.38 m. "L.Character 1a encrypted as follows:
5.39 m. 1. Tate its ASCII value of the offset
5.40 m. 2. Add value of the offset
5.41 m. 3. NOD this new number by 255 to make sure it is a legal
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